

APPENDIX C

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

September 22, 2004

Therese Watson
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer

Dear Therese:

Enclosed are the results of the samples submitted to our laboratory on September 10, 2004. For your reference, these analyses have been assigned our service request number L0401901.


All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 38 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.



Stuart Sigman
Project Chemist

SS/sa

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
D LCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl- <i>tert</i> -Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request No.: L0401901
Date Received: 9/10/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

The samples were received for analysis at Columbia Analytical Services on 9/10/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C/frozen at -20°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

Samples BX-2, BX-5, BX-6 and BX-7 were extracted in Methanol and analyzed as medium level due to the presence of elevated levels of non-target background component. The reporting limits are adjusted to reflect the dilution.

The control criterion was exceeded for the 4-Bromofluorobenzene surrogates in sample BX-3 due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Gasoline Range Organics by EPA Method 8015M

Samples BX-2, BX-3, BX-5, BX-6 and BX-7 were extracted in Methanol and analyzed a medium level due to the presence of elevated levels of target analyte. Further dilution was also necessary; therefore the reporting limits are adjusted to reflect the dilution.

The control criteria for the 4-Bromofluorobenzene surrogates in the above samples are not applicable. The chromatogram indicated the presence of target components that masked the surrogate, which prevented adequate resolution for quantitation. No corrective action was appropriate. All other QA/QC results were within the control criteria, which indicate that the analytical batch was in control. No further corrective action was taken.

Total Metals

No anomalies were encountered. No STLC was required.

Approved by SS 3 Date 9/22/04

Client: PW Environmental
Project: Bauer

Service Request: L0401901

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
BX-2	L0401901-001	09/10/2004	09/10/2004
BX-3	L0401901-002	09/10/2004	09/10/2004
BX-4	L0401901-003	09/10/2004	09/10/2004
BX-5	L0401901-004	09/10/2004	09/10/2004
BX-6	L0401901-005	09/10/2004	09/10/2004
BX-7	L0401901-006	09/10/2004	09/10/2004
BX-8	L0401901-007	09/10/2004	09/10/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart S.

Name: Stuart Sigman

Date: 9/22/04

Title: Project Chemist

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: 09/10/2004
 Date Received: 09/10/2004

Volatile Organic Compounds

Sample Name: BX-2
 Lab Code: L0401901-001
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	160	16	1	09/16/04	09/16/04	LWG0403329	
Toluene	ND	U	160	14	1	09/16/04	09/16/04	LWG0403329	
Ethylbenzene	1900		160	20	1	09/16/04	09/16/04	LWG0403329	
Total Xylenes	490		480	36	1	09/16/04	09/16/04	LWG0403329	
Methyl tert-Butyl Ether	ND	U	400	39	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Alcohol	ND	U	2000	1000	1	09/16/04	09/16/04	LWG0403329	
Diisopropyl Ether	ND	U	400	47	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Ethyl Ether	ND	U	400	39	1	09/16/04	09/16/04	LWG0403329	
tert-Amyl Methyl Ether	ND	U	400	45	1	09/16/04	09/16/04	LWG0403329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	65-131	09/16/04	Acceptable
Toluene-d8	103	62-131	09/16/04	Acceptable
4-Bromofluorobenzene	83	54-129	09/16/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: 09/10/2004
 Date Received: 09/10/2004

Volatile Organic Compounds

Sample Name: BX-3
 Lab Code: L0401901-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.8	1.2	1	09/15/04	09/15/04	LWG0403327	
Toluene	ND	U	4.8	1.3	1	09/15/04	09/15/04	LWG0403327	
Ethylbenzene	ND	U	4.8	1.1	1	09/15/04	09/15/04	LWG0403327	
Total Xylenes	ND	U	14	3.3	1	09/15/04	09/15/04	LWG0403327	
Methyl tert-Butyl Ether	ND	U	9.5	2.7	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Alcohol	ND	U	48	26	1	09/15/04	09/15/04	LWG0403327	
Diisopropyl Ether	ND	U	9.5	2.8	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Ethyl Ether	ND	U	9.5	2.5	1	09/15/04	09/15/04	LWG0403327	
tert-Amyl Methyl Ether	ND	U	9.5	2.5	1	09/15/04	09/15/04	LWG0403327	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	74-126	09/15/04	Acceptable
Toluene-d8	97	79-122	09/15/04	Acceptable
4-Bromofluorobenzene	125	74-116	09/15/04	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: 09/10/2004
 Date Received: 09/10/2004

Volatile Organic Compounds

Sample Name: BX-4
 Lab Code: L0401901-003
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.1	1.2	1	09/15/04	09/15/04	LWG0403327	
Toluene	ND	U	4.1	1.3	1	09/15/04	09/15/04	LWG0403327	
Ethylbenzene	ND	U	4.1	1.1	1	09/15/04	09/15/04	LWG0403327	
Total Xylenes	ND	U	12	3.3	1	09/15/04	09/15/04	LWG0403327	
Methyl tert-Butyl Ether	ND	U	8.2	2.7	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Alcohol	ND	U	41	26	1	09/15/04	09/15/04	LWG0403327	
Diisopropyl Ether	ND	U	8.2	2.8	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Ethyl Ether	ND	U	8.2	2.5	1	09/15/04	09/15/04	LWG0403327	
tert-Amyl Methyl Ether	ND	U	8.2	2.5	1	09/15/04	09/15/04	LWG0403327	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	74-126	09/15/04	Acceptable
Toluene-d8	105	79-122	09/15/04	Acceptable
4-Bromofluorobenzene	95	74-116	09/15/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: 09/10/2004
 Date Received: 09/10/2004

Volatile Organic Compounds

Sample Name: BX-5
 Lab Code: L0401901-004
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	170	16	1	09/16/04	09/16/04	LWG0403329	
Toluene	ND	U	170	14	1	09/16/04	09/16/04	LWG0403329	
Ethylbenzene	ND	U	170	20	1	09/16/04	09/16/04	LWG0403329	
Total Xylenes	ND	U	510	36	1	09/16/04	09/16/04	LWG0403329	
Methyl tert-Butyl Ether	ND	U	430	39	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Alcohol	ND	U	2200	1000	1	09/16/04	09/16/04	LWG0403329	
Diisopropyl Ether	ND	U	430	47	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Ethyl Ether	ND	U	430	39	1	09/16/04	09/16/04	LWG0403329	
tert-Amyl Methyl Ether	ND	U	430	45	1	09/16/04	09/16/04	LWG0403329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	65-131	09/16/04	Acceptable
Toluene-d8	99	62-131	09/16/04	Acceptable
4-Bromofluorobenzene	88	54-129	09/16/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: 09/10/2004
 Date Received: 09/10/2004

Volatile Organic Compounds

Sample Name: BX-6
 Lab Code: L0401901-005
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	180	16	1	09/16/04	09/16/04	LWG0403329	
Toluene	ND	U	180	14	1	09/16/04	09/16/04	LWG0403329	
Ethylbenzene	ND	U	180	20	1	09/16/04	09/16/04	LWG0403329	
Total Xylenes	ND	U	540	36	1	09/16/04	09/16/04	LWG0403329	
Methyl tert-Butyl Ether	ND	U	450	39	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Alcohol	ND	U	2300	1000	1	09/16/04	09/16/04	LWG0403329	
Diisopropyl Ether	ND	U	450	47	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Ethyl Ether	ND	U	450	39	1	09/16/04	09/16/04	LWG0403329	
tert-Amyl Methyl Ether	ND	U	450	45	1	09/16/04	09/16/04	LWG0403329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	84	65-131	09/16/04	Acceptable
Toluene-d8	94	62-131	09/16/04	Acceptable
4-Bromofluorobenzene	91	54-129	09/16/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: 09/10/2004
 Date Received: 09/10/2004

Volatile Organic Compounds

Sample Name: BX-7
 Lab Code: L0401901-006
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	180	16	1	09/16/04	09/16/04	LWG0403329	
Toluene	ND	U	180	14	1	09/16/04	09/16/04	LWG0403329	
Ethylbenzene	ND	U	180	20	1	09/16/04	09/16/04	LWG0403329	
Total Xylenes	ND	U	540	36	1	09/16/04	09/16/04	LWG0403329	
Methyl tert-Butyl Ether	ND	U	440	39	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Alcohol	ND	U	2200	1000	1	09/16/04	09/16/04	LWG0403329	
Diisopropyl Ether	ND	U	440	47	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Ethyl Ether	ND	U	440	39	1	09/16/04	09/16/04	LWG0403329	
tert-Amyl Methyl Ether	ND	U	440	45	1	09/16/04	09/16/04	LWG0403329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	65-131	09/16/04	Acceptable
Toluene-d8	98	62-131	09/16/04	Acceptable
4-Bromofluorobenzene	97	54-129	09/16/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: 09/10/2004
 Date Received: 09/10/2004

Volatile Organic Compounds

Sample Name: BX-8
 Lab Code: L0401901-007
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.3	1.2	1	09/15/04	09/15/04	LWG0403327	
Toluene	ND	U	4.3	1.3	1	09/15/04	09/15/04	LWG0403327	
Ethylbenzene	ND	U	4.3	1.1	1	09/15/04	09/15/04	LWG0403327	
Total Xylenes	ND	U	13	3.3	1	09/15/04	09/15/04	LWG0403327	
Methyl tert-Butyl Ether	ND	U	8.5	2.7	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Alcohol	ND	U	43	26	1	09/15/04	09/15/04	LWG0403327	
Diisopropyl Ether	ND	U	8.5	2.8	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Ethyl Ether	ND	U	8.5	2.5	1	09/15/04	09/15/04	LWG0403327	
tert-Amyl Methyl Ether	ND	U	8.5	2.5	1	09/15/04	09/15/04	LWG0403327	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	86	74-126	09/15/04	Acceptable
Toluene-d8	95	79-122	09/15/04	Acceptable
4-Bromofluorobenzene	87	74-116	09/15/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403327-3

Units: ug/Kg

Basis: Wet

Extraction Method: EPA 5035

Level: Low

Analysis Method: 8260B

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.2	1	09/15/04	09/15/04	LWG0403327	
Toluene	ND	U	5.0	1.3	1	09/15/04	09/15/04	LWG0403327	
Ethylbenzene	ND	U	5.0	1.1	1	09/15/04	09/15/04	LWG0403327	
Total Xylenes	ND	U	15	3.3	1	09/15/04	09/15/04	LWG0403327	
Methyl tert-Butyl Ether	ND	U	10	2.7	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Alcohol	ND	U	50	26	1	09/15/04	09/15/04	LWG0403327	
Diisopropyl Ether	ND	U	10	2.8	1	09/15/04	09/15/04	LWG0403327	
tert-Butyl Ethyl Ether	ND	U	10	2.5	1	09/15/04	09/15/04	LWG0403327	
tert-Amyl Methyl Ether	ND	U	10	2.5	1	09/15/04	09/15/04	LWG0403327	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	74-126	09/15/04	Acceptable
Toluene-d8	105	79-122	09/15/04	Acceptable
4-Bromofluorobenzene	95	74-116	09/15/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403329-3
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	200	16	1	09/16/04	09/16/04	LWG0403329	
Toluene	ND	U	200	14	1	09/16/04	09/16/04	LWG0403329	
Ethylbenzene	ND	U	200	20	1	09/16/04	09/16/04	LWG0403329	
Total Xylenes	ND	U	600	36	1	09/16/04	09/16/04	LWG0403329	
Methyl tert-Butyl Ether	ND	U	500	39	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Alcohol	ND	U	2500	1000	1	09/16/04	09/16/04	LWG0403329	
Diisopropyl Ether	ND	U	500	47	1	09/16/04	09/16/04	LWG0403329	
tert-Butyl Ethyl Ether	ND	U	500	39	1	09/16/04	09/16/04	LWG0403329	
tert-Amyl Methyl Ether	ND	U	500	45	1	09/16/04	09/16/04	LWG0403329	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	65-131	09/16/04	Acceptable
Toluene-d8	100	62-131	09/16/04	Acceptable
4-Bromofluorobenzene	98	54-129	09/16/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
BX-3	L0401901-002	90	97	125 *
BX-4	L0401901-003	95	105	95
BX-8	L0401901-007	86	95	87
Method Blank	LWG0403327-3	95	105	95
Lab Control Sample	LWG0403327-1	109	99	97
Duplicate Lab Control Sample	LWG0403327-2	113	104	101

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	74-126
Sur2 = Toluene-d8	79-122
Sur3 = 4-Bromofluorobenzene	74-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
BX-2	L0401901-001	100	103	83
BX-5	L0401901-004	90	99	88
BX-6	L0401901-005	84	94	91
BX-7	L0401901-006	91	98	97
Method Blank	LWG0403329-3	100	100	98
Lab Control Sample	LWG0403329-1	97	99	102
Duplicate Lab Control Sample	LWG0403329-2	98	100	102

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	65-131
Sur2 = Toluene-d8	62-131
Sur3 = 4-Bromofluorobenzene	54-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Extracted: 09/15/2004
 Date Analyzed: 09/15/2004

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0403327

Analyte Name	Lab Control Sample LWG0403327-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403327-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	15.0	20.0	75	16.6	20.0	83	70-130	10	30
Toluene	16.3	20.0	81	17.7	20.0	88	70-130	8	30
Ethylbenzene	15.6	20.0	78	17.0	20.0	85	70-130	8	30
Total Xylenes	47.9	60.0	80	51.7	60.0	86	70-130	8	30
Methyl tert-Butyl Ether	34.7	40.0	87	37.4	40.0	94	70-130	7	30
tert-Butyl Alcohol	340	400	85	384	400	96	70-130	12	30
Diisopropyl Ether	31.8	40.0	80	35.2	40.0	88	70-130	10	30
tert-Butyl Ethyl Ether	33.7	40.0	84	38.2	40.0	95	70-130	13	30
tert-Amyl Methyl Ether	33.4	40.0	84	36.3	40.0	91	70-130	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
 Project: Bauer
 Sample Matrix: Soil

Service Request: L0401901
 Date Extracted: 09/16/2004
 Date Analyzed: 09/16/2004

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med
 Extraction Lot: LWG0403329

Analyte Name	Lab Control Sample LWG0403329-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403329-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	901	1000	90	1000	1000	100	87-120	11	30
Toluene	922	1000	92	1030	1000	103	88-125	11	30
Ethylbenzene	926	1000	93	1040	1000	104	87-121	12	30
Total Xylenes	2860	3000	95	3220	3000	107	85-125	12	30
Methyl tert-Butyl Ether	1840	2000	92	1940	2000	97	73-128	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer

Service Request: L0401901

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
BX-2	L0401901-001	09/10/2004	09/10/2004
BX-3	L0401901-002	09/10/2004	09/10/2004
BX-4	L0401901-003	09/10/2004	09/10/2004
BX-5	L0401901-004	09/10/2004	09/10/2004
BX-6	L0401901-005	09/10/2004	09/10/2004
BX-7	L0401901-006	09/10/2004	09/10/2004
BX-8	L0401901-007	09/10/2004	09/10/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 9/22/04

Title: Project Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 09/10/2004
Date Received: 09/10/2004

Gasoline Range Organics (GRO)

Sample Name: BX-2
Lab Code: L0401901-001
Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	330	D	8.5	4.6	2	09/16/04	09/16/04	LWG0403305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	0	62-133	09/16/04	Outside Control Limits

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 09/10/2004
Date Received: 09/10/2004

Gasoline Range Organics (GRO)

Sample Name: BX-3
Lab Code: L0401901-002
Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	290	D	9.1	4.6	2	09/16/04	09/16/04	LWG0403305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	0	62-133	09/16/04	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 09/10/2004
Date Received: 09/10/2004

Gasoline Range Organics (GRO)

Sample Name: BX-4
Lab Code: L0401901-003
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.085	0.045	1	09/16/04	09/16/04	LWG0403337	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	80	58-119	09/16/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 09/10/2004
Date Received: 09/10/2004

Gasoline Range Organics (GRO)

Sample Name: BX-5
Lab Code: L0401901-004
Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	67	D	9.1	4.6	2	09/16/04	09/16/04	LWG0403305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	0	62-133	09/16/04	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 09/10/2004
Date Received: 09/10/2004

Gasoline Range Organics (GRO)

Sample Name: BX-6
Lab Code: L0401901-005
Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	120		4.8	2.3	1	09/17/04	09/17/04	LWG0403305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	0	62-133	09/17/04	Outside Control Limits

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 09/10/2004
Date Received: 09/10/2004

Gasoline Range Organics (GRO)

Sample Name: BX-7
Lab Code: L0401901-006
Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	130	D	8.5	4.6	2	09/17/04	09/17/04	LWG0403305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	0	62-133	09/17/04	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 09/10/2004
Date Received: 09/10/2004

Gasoline Range Organics (GRO)

Sample Name: BX-8
Lab Code: L0401901-007
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.11	0.046	1	09/15/04	09/15/04	LWG0403303	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	74	58-119	09/15/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403303-3

Units: mg/Kg

Basis: Wet

Extraction Method: EPA 5035

Level: Low

Analysis Method: 8015B

Analyte Name	Result Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND U	0.10	0.045	1	09/15/04	09/15/04	LWG0403303	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	94	58-119	09/15/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403305-3
Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	5.0	2.3	1	09/15/04	09/15/04	LWG0403305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	97	62-133	09/15/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403337-3

Units: mg/Kg

Basis: Wet

Extraction Method: EPA 5035

Level: Low

Analysis Method: 8015B

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	09/16/04	09/16/04	LWG0403337	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	96	58-119	09/16/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BX-4	L0401901-003	80
BX-8	L0401901-007	74
Method Blank	LWG0403303-3	94
Method Blank	LWG0403337-3	96
Lab Control Sample	LWG0403303-1	102
Duplicate Lab Control Sample	LWG0403303-2	99
Lab Control Sample	LWG0403337-1	104
Duplicate Lab Control Sample	LWG0403337-2	102

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901

Surrogate Recovery Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Surf</u>
BX-2	L0401901-001	0 D *
BX-3	L0401901-002	0 D *
BX-5	L0401901-004	0 D *
BX-6	L0401901-005	0 *
BX-7	L0401901-006	0 D *
Method Blank	LWG0403305-3	97
Lab Control Sample	LWG0403305-1	107
Duplicate Lab Control Sample	LWG0403305-2	107

Surrogate Recovery Control Limits (%)

Surf = Bromofluorobenzene 62-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Extracted: 09/15/2004
Date Analyzed: 09/15/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403303

Analyte Name	Lab Control Sample LWG0403303-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403303-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.874	1.00	87	0.840	1.00	84	76-117	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Extracted: 09/15/2004
Date Analyzed: 09/15/2004 -
09/16/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5030B
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med
Extraction Lot: LWG0403305

Analyte Name	Lab Control Sample LWG0403305-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403305-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	45.5	51.0	89	46.4	51.0	91	74-111	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Extracted: 09/16/2004
Date Analyzed: 09/16/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403337

Analyte Name	Lab Control Sample LWG0403337-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403337-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.873	1.00	87	0.850	1.00	85	76-117	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: 9/10/04
Date Received: 9/10/04

Lead, Total

Prep Method: EPA 3050B
Analysis Method: 6020
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Result Notes
BX-2	L0401901-001	0.4	0.04	1	9/14/04	9/14/04	12	
BX-3	L0401901-002	0.4	0.04	1	9/14/04	9/14/04	16	
BX-4	L0401901-003	0.4	0.04	1	9/14/04	9/14/04	9	
BX-5	L0401901-004	0.4	0.04	1	9/14/04	9/14/04	13	
BX-6	L0401901-005	0.4	0.04	1	9/14/04	9/14/04	12	
BX-7	L0401901-006	0.4	0.04	1	9/14/04	9/14/04	13	
BX-8	L0401901-007	0.4	0.04	1	9/14/04	9/14/04	6.3	
Method Blank	L040914-MB2	0.4	0.04	1	9/14/04	9/14/04	ND	

Approved By: SS Date: 9/17/04

1A/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer
LCS Matrix: Soil

Service Request: L0401901
Date Collected: NA
Date Received: NA
Date Digested: 9/14/04
Date Analyzed: 9/14/04

Laboratory Control Sample Summary
Lead, Total

Sample Name: Lab Control Sample
Lab Code: L040914-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery	Result Notes
						Acceptance Limits	
Lead, Total	EPA 3050B	6020	100	102	102	70-130	

Approved By: _____ **Date:** 9/12/04

LCS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer
Sample Matrix: Soil

Service Request: L0401901
Date Collected: NA
Date Received: NA
Date Digested: 9/14/04
Date Analyzed: 9/14/04

Matrix Spike/Duplicate Matrix Spike Summary
Lead, Total

Sample Name: Batch QC
Lab Code: L0401886-001MS L0401886-001DMS
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	PQL	Spike Level		Sample Result	Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Lead, Total	EPA 3050B	6020	0.4	100	100	8.45	110	109	102	101	70-130	<1	

Approved By: SS Date: 9/12/04

DMS/020597p



CHAIN OF CUSTODY RECORD

ENVIRONMENTAL L040/90/

230 DOVE COURT • SANTA PAULA • CALIFORNIA • 93060

(805) 656-4677 • (805) 525-5563 • FAX (805) 525-2896

PROJECT NAME: Bauer

PROJECT ADDRESS: 1140 S. Wells Road, Satcoy

PROJECT MANAGER: T. Watson

SAMPLER SIGNATURE: [Signature] 1286-LAB-8493
P.O. # 2495

SAMPLE ID	SAMPLE LOCATION	DEPTH	DATE	TIME	SAMPLE MATRIX
BX-2	CORNER SIDEWALL	6'	9/10/04	9:53	Soil
BX-3	CORNER	6'	9/10/04	10:10	Soil
BX-4	CORNER	9'	9/10/04	10:27	Soil
BX-5	CORNER	6'	9/10/04	10:39	Soil
BX-6	SIDEWALL	6'	9/10/04	10:47	Soil
BX-7	SIDEWALL	6'	9/10/04	10:55	Soil
BX-8	Bottom	12'	9/10/04	11:05	Soil

NUMBER OF CONTAINERS

TPH-G 8015M	X
TPH-D Low Level 8015M	X
TPH-O 8015M	X
TPH-Char. 8015M FC	X
BTEX, OXYG, EDC, EDC 8260B	X
FULL VOCs w/Oxygenates 8260B	X
Lead (Total) Dissolved 6010/6020/7421	X
STLC IF Pb is over 50 mg/kg	X
TCLP	X
Metals: CAM 17 PP13	X
Ethanol/Methanol 8015B	X
Ethanol 8260B	X
TPH-G/BTEX/OXYG/EOH 8260B	X
TPH-G/BTEX/MTBE (Carb 410-T03)	X
Lab Filter	X
TAT: RUSH 24-HR 48 HR 72HR STD	X

Pest (Ice/Dry) HCl None	X
TPH-G 8015M	X
TPH-D Low Level 8015M	X
TPH-O 8015M	X
TPH-Char. 8015M FC	X
BTEX, OXYG, EDC, EDC 8260B	X
FULL VOCs w/Oxygenates 8260B	X
Lead (Total) Dissolved 6010/6020/7421	X
STLC IF Pb is over 50 mg/kg	X
TCLP	X
Metals: CAM 17 PP13	X
Ethanol/Methanol 8015B	X
Ethanol 8260B	X
TPH-G/BTEX/OXYG/EOH 8260B	X
TPH-G/BTEX/MTBE (Carb 410-T03)	X
Lab Filter	X
TAT: RUSH 24-HR 48 HR 72HR STD	X

TPH-G 8015M	X
TPH-D Low Level 8015M	X
TPH-O 8015M	X
TPH-Char. 8015M FC	X
BTEX, OXYG, EDC, EDC 8260B	X
FULL VOCs w/Oxygenates 8260B	X
Lead (Total) Dissolved 6010/6020/7421	X
STLC IF Pb is over 50 mg/kg	X
TCLP	X
Metals: CAM 17 PP13	X
Ethanol/Methanol 8015B	X
Ethanol 8260B	X
TPH-G/BTEX/OXYG/EOH 8260B	X
TPH-G/BTEX/MTBE (Carb 410-T03)	X
Lab Filter	X
TAT: RUSH 24-HR 48 HR 72HR STD	X

RELINQUISHED BY: [Signature] DATE 9/10/04 TIME 11:15

RELINQUISHED BY: [Signature] DATE 9/10/04 TIME 12:05

Method of shipment, additional comments: ☒ USTCF ☒ EDF-COELT ☐ NONE

normal turnaround except where noted

Fax preliminary data ASAP

Requested Parties to:

S.B. CO	Los Angeles	Central Coast	San Bernardino	KCEHD	OCHCA
PSD-LUFT	RWOCB	RWOCB	County FD	Kern County	Orange County

SAMPLE RECEIPT FORM

Service Request No: L0401901 Client: PW ENV

Sample(s) delivered by: Client ☐ CAS Emp ☒ After Hours ☐ DHL ☐

Golden State Overnight ☐ Fed X ☐ UPS ☐ Other Courier ☐

Chain of Custody filled out accurately? Yes ☒ No ☐ (See Comments)

Appropriate sample volume and containers? Yes ☒ No ☐ (See Comments)

Sufficient labeling on container(s)? Yes ☒ No ☐ (See Comments)

Container(s) supplied by CAS? Yes ☐ No ☒ (See Comments)

Custody seal(s) intact? N/A ☒ Yes ☐ No ☐ (See Comments)

Trip Blank(s) received Yes ☐ No ☒

If Trip Blank was supplied by CAS, record serial # _____ -TB- _____

Temperature of sample(s)/cooler 4 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes ☐ No ☐ Filled Properly? Yes ☐ No ☐ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes ☐ Appropriate Preservation? Yes ☐ No ☐

RUSH Turn around time? Yes ☒ Notified D. J. R Date & Time 9/10/04 1300

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl <input type="checkbox"/>	D.O <input type="checkbox"/>	Flash <input type="checkbox"/>	Diss S2- <input type="checkbox"/>	Ferrous Fe <input type="checkbox"/>
24HR	pH <input type="checkbox"/>	Odor <input type="checkbox"/>	Cr+6 <input type="checkbox"/>		
48HR	BOD <input type="checkbox"/>	Color <input type="checkbox"/>	MBAS <input type="checkbox"/>	Nitrate <input type="checkbox"/>	
	Nitrite <input type="checkbox"/>	O-PO4 <input type="checkbox"/>	Sett Sol <input type="checkbox"/>	Turbidity <input type="checkbox"/>	
72HR	Vapors <input type="checkbox"/>				

Notified _____ Date & Time _____

Container(s) received and their preservative(s):

-1 → -7 = 6-ENCORE
1-BRASS SOIL SLEEVE
1-4oz Jar

Comments RUSH ENCORES TRANSFERRED TO FREEZER
9/10/04 1300

Initials, Date, Time LE 9/10/04 1300

October 27, 2004

Robert Orlando
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer Manufacturing

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on October 13, 2004. For your reference, these analyses have been assigned our service request number L0402100.


All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 33 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.



Stuart Sigman
Project Chemist

SS/sa

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl-tert-Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request No.: L0402100
Date Received: 10/13/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

The samples were received for analysis at Columbia Analytical Services on 10/13/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C or frozen at -20°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

The control criteria were exceeded for the following surrogates in sample BSC 1-1 due to matrix interferences: Toluene-d8 and 4-Bromofluorobenzene. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

In sample BSC 1-1, Ethylbenzene was found at concentration above the highest instrument calibration. The sample was reanalyzed as medium level and reported for Ethylbenzene only.

The upper control criterion was exceeded for the following analytes in Laboratory Control Samples (LCS and DLCS) of Extraction Lots: LWG0403763 and LWG0403795: Methyl tert-Butyl Ether. Tert-Butyl Ethyl Ether and tert-Amyl Methyl Ether was also exceeded the control criteria in LWG0403763-1 and LWG0403763-2. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Gasoline Range Organics by EPA Method 8015M

Sample BSC 1-1 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

The control criterion for the Bromofluorobenzene surrogate in sample BSC 1-1 is not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

Total Metals

Batch QC was run along with these samples. These results are provided for information purposes only. The Method Blank and Laboratory Control Sample were within control criteria. No anomalies were encountered during this analysis.

Approved by _____

SS 3

Date

10/27/04

Client: PW Environmental
Project: Bauer Manufacturing

Service Request: L0402100

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
BSC 1-1	L0402100-001	10/12/2004	10/13/2004
BSC 1-2	L0402100-002	10/12/2004	10/13/2004
BSC 1-3	L0402100-003	10/12/2004	10/13/2004
BSC 1-4	L0402100-004	10/12/2004	10/14/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 10/27/04

Title: Project Chemist

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Collected: 10/12/2004
 Date Received: 10/13/2004

Volatile Organic Compounds

Sample Name: BSC 1-1
 Lab Code: L0402100-001
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.4	1.2	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	5.4	1.3	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	4.3	J	16	4.2	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	11	2.7	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	54	25	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	11	2.3	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	11	2.3	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	11	2.5	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	5.4	1.2	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	5.4	1.2	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	62-136	10/18/04	Acceptable
Toluene-d8	204	67-131	10/18/04	Outside Control Limits
4-Bromofluorobenzene	712	64-130	10/18/04	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: 10/12/2004
Date Received: 10/13/2004

Volatile Organic Compounds

Sample Name: BSC 1-1
Lab Code: L0402100-001
Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	1000		180	16	1	10/19/04	10/19/04	LWG0403795	

Surrogate Name	%Rec	Control Limits	Note
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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Collected: 10/12/2004
 Date Received: 10/13/2004

Volatile Organic Compounds

Sample Name: BSC 1-2
 Lab Code: L0402100-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.4	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	4.4	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	ND	U	4.4	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	13	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	8.7	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	44	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	8.7	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	8.7	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	8.7	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	4.4	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	4.4	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	62-136	10/18/04	Acceptable
Toluene-d8	102	67-131	10/18/04	Acceptable
4-Bromofluorobenzene	97	64-130	10/18/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Collected: 10/12/2004
 Date Received: 10/13/2004

Volatile Organic Compounds

Sample Name: BSC 1-3
 Lab Code: L0402100-003
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	4.1	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	ND	U	4.1	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	12	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	8.1	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	41	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	8.1	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	8.1	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	8.1	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	62-136	10/18/04	Acceptable
Toluene-d8	101	67-131	10/18/04	Acceptable
4-Bromofluorobenzene	99	64-130	10/18/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Collected: 10/12/2004
 Date Received: 10/14/2004

Volatile Organic Compounds

Sample Name: BSC 1-4
 Lab Code: L0402100-004
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	4.1	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	ND	U	4.1	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	12	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	8.2	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	41	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	8.2	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	8.2	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	8.2	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	62-136	10/18/04	Acceptable
Toluene-d8	98	67-131	10/18/04	Acceptable
4-Bromofluorobenzene	97	64-130	10/18/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403763-3
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	5.0	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	ND	U	5.0	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	15	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	10	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	50	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	10	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	10	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	10	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	5.0	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	62-136	10/18/04	Acceptable
Toluene-d8	103	67-131	10/18/04	Acceptable
4-Bromofluorobenzene	98	64-130	10/18/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403795-3
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	200	17	1	10/19/04	10/19/04	LWG0403795	
Toluene	ND	U	200	22	1	10/19/04	10/19/04	LWG0403795	
Ethylbenzene	ND	U	200	16	1	10/19/04	10/19/04	LWG0403795	
Total Xylenes	ND	U	600	54	1	10/19/04	10/19/04	LWG0403795	
Methyl tert-Butyl Ether	ND	U	500	32	1	10/19/04	10/19/04	LWG0403795	
tert-Butyl Alcohol	ND	U	2500	1100	1	10/19/04	10/19/04	LWG0403795	
Diisopropyl Ether	ND	U	500	27	1	10/19/04	10/19/04	LWG0403795	
tert-Butyl Ethyl Ether	ND	U	500	29	1	10/19/04	10/19/04	LWG0403795	
tert-Amyl Methyl Ether	ND	U	500	27	1	10/19/04	10/19/04	LWG0403795	
1,2-Dibromoethane (EDB)	ND	U	200	21	1	10/19/04	10/19/04	LWG0403795	
1,2-Dichloroethane (EDC)	ND	U	200	21	1	10/19/04	10/19/04	LWG0403795	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	65-131	10/19/04	Acceptable
Toluene-d8	100	62-131	10/19/04	Acceptable
4-Bromofluorobenzene	93	54-129	10/19/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035

Units: PERCENT

Analysis Method: 8260B

Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
BSC 1-1	L0402100-001	107	204 *	712 *
BSC 1-2	L0402100-002	96	102	97
BSC 1-3	L0402100-003	100	101	99
BSC 1-4	L0402100-004	99	98	97
Method Blank	LWG0403763-3	104	103	98
Lab Control Sample	LWG0403763-1	106	103	101
Duplicate Lab Control Sample	LWG0403763-2	104	101	98

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	62-136
Sur2 = Toluene-d8	67-131
Sur3 = 4-Bromofluorobenzene	64-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
Method Blank	LWG0403795-3	102	100	93
Lab Control Sample	LWG0403795-1	114	104	96
Duplicate Lab Control Sample	LWG0403795-2	116	108	95

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	65-131
Sur2 = Toluene-d8	62-131
Sur3 = 4-Bromofluorobenzene	54-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Extracted: 10/18/2004
 Date Analyzed: 10/18/2004

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0403763

Analyte Name	Lab Control Sample LWG0403763-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403763-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	21.1	20.0	105	18.9	20.0	95	64-125	11	30
Toluene	21.4	20.0	107	19.0	20.0	95	69-119	12	30
Ethylbenzene	22.2	20.0	111	19.5	20.0	98	68-120	13	30
Total Xylenes	66.6	60.0	111	57.7	60.0	96	65-121	14	30
Methyl tert-Butyl Ether	60.7	40.0	152 *	55.7	40.0	139 *	64-131	9	30
tert-Butyl Alcohol	456	400	114	397	400	99	60-128	14	30
Diisopropyl Ether	48.9	40.0	122	43.0	40.0	107	70-124	13	30
tert-Butyl Ethyl Ether	55.7	40.0	139 *	51.5	40.0	129 *	70-126	8	30
tert-Amyl Methyl Ether	52.0	40.0	130 *	47.9	40.0	120	74-122	8	30
1,2-Dibromoethane (EDB)	20.6	20.0	103	19.0	20.0	95	74-118	8	30
1,2-Dichloroethane (EDC)	19.9	20.0	99	18.1	20.0	91	65-128	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402100
 Date Extracted: 10/19/2004
 Date Analyzed: 10/19/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds

Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Med
 Extraction Lot: LWG0403795

Analyte Name	Lab Control Sample LWG0403795-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403795-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	904	1000	90	992	1000	99	74-128	9	30
Toluene	953	1000	95	1030	1000	103	77-130	8	30
Ethylbenzene	925	1000	93	1000	1000	100	80-120	8	30
Total Xylenes	2820	3000	94	3020	3000	101	80-122	7	30
Methyl tert-Butyl Ether	2770	2000	138 *	2840	2000	142 *	74-125	3	30
1,2-Dibromoethane (EDB)	951	1000	95	975	1000	98	68-130	2	30
1,2-Dichloroethane (EDC)	928	1000	93	997	1000	100	71-133	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer Manufacturing

Service Request: L0402100

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
BSC 1-1	L0402100-001	10/12/2004	10/13/2004
BSC 1-2	L0402100-002	10/12/2004	10/13/2004
BSC 1-3	L0402100-003	10/12/2004	10/13/2004
BSC 1-4	L0402100-004	10/12/2004	10/14/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart SigmanName: Stuart SigmanDate: 10/27/04Title: Project Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: 10/12/2004
Date Received: 10/13/2004

Gasoline Range Organics (GRO)

Sample Name: BSC 1-1
Lab Code: L0402100-001
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	2200	D	93	46	20	10/19/04	10/19/04	LWG0403782	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	0	62-133	10/19/04	Outside Control Limits

Comments:

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: 10/12/2004
Date Received: 10/13/2004

Gasoline Range Organics (GRO)

Sample Name: BSC 1-2
Lab Code: L0402100-002
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	0.28		0.084	0.045	1	10/22/04	10/22/04	LWG0403820	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	87	58-119	10/22/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: 10/12/2004
Date Received: 10/13/2004

Gasoline Range Organics (GRO)

Sample Name: BSC 1-3
Lab Code: L0402100-003
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.080	0.045	1	10/19/04	10/19/04	LWG0403774	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	82	58-119	10/19/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: 10/12/2004
Date Received: 10/14/2004

Gasoline Range Organics (GRO)

Sample Name: BSC 1-4
Lab Code: L0402100-004
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND U	0.087	0.045	1	10/19/04	10/19/04	LWG0403774	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	88	58-119	10/19/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403774-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	10/18/04	10/18/04	LWG0403774	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	94	58-119	10/18/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403782-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	5.0	2.3	1	10/19/04	10/19/04	LWG0403782	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	96	62-133	10/19/04	Acceptable

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403820-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	10/21/04	10/21/04	LWG0403820	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	93	58-119	10/21/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100

Surrogate Recovery Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BSC 1-2	L0402100-002	87
BSC 1-3	L0402100-003	82
BSC 1-4	L0402100-004	88
Method Blank	LWG0403774-3	94
Method Blank	LWG0403820-3	93
Lab Control Sample	LWG0403774-1	99
Duplicate Lab Control Sample	LWG0403774-2	97
Lab Control Sample	LWG0403820-1	97
Duplicate Lab Control Sample	LWG0403820-2	98

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100

Surrogate Recovery Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BSC 1-1	L0402100-001	0 D #
Method Blank	LWG0403782-3	96
Lab Control Sample	LWG0403782-1	106
Duplicate Lab Control Sample	LWG0403782-2	107

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 62-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Extracted: 10/18/2004
Date Analyzed: 10/18/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403774

Analyte Name	Lab Control Sample LWG0403774-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403774-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.880	1.00	88	0.857	1.00	86	76-117	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Extracted: 10/19/2004
Date Analyzed: 10/19/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med
Extraction Lot: LWG0403782

Analyte Name	Lab Control Sample LWG0403782-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403782-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	46.9	51.0	92	47.3	51.0	93	74-111	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Extracted: 10/21/2004
Date Analyzed: 10/21/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403820

Analyte Name	Lab Control Sample LWG0403820-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403820-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.914	1.00	91	0.926	1.00	93	76-117	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: 10/12/04
Date Received: 10/13/04

Lead, Total

Prep Method: EPA 3050B
Analysis Method: 6020
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Result Notes
BSC 1-1	L0402100-001	0.4	0.04	1	10/18/04	10/19/04	33	
BSC 1-2	L0402100-002	0.4	0.04	1	10/18/04	10/19/04	10	
BSC 1-3	L0402100-003	0.4	0.04	1	10/18/04	10/19/04	7.2	
BSC 1-4	L0402100-004	0.4	0.04	1	10/18/04	10/19/04	7.0	
Method Blank	L041018-MB3	0.4	0.04	1	10/18/04	10/19/04	ND	

Approved By: _____

SS

Date: _____

10/27/04

1A/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402100
Date Collected: NA
Date Received: NA
Date Digested: 10/18/04
Date Analyzed: 10/19/04

Matrix Spike/Duplicate Matrix Spike Summary
Lead, Total

Sample Name: Batch QC
Lab Code: L0402087-005MS L0402087-005DMS
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	PQL	Spike Level		Sample Result	Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Lead, Total	EPA 3050B	6020	0.4	100	100	ND	101	101	101	101	70-130	<1	

Approved By: SS Date: 10/27/04

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
LCS Matrix: Soil

Service Request: L0402100
Date Collected: NA
Date Received: NA
Date Digested: 10/18/04
Date Analyzed: 10/19/04

Laboratory Control Sample Summary
Lead, Total

Sample Name: Lab Control Sample
Lab Code: L041018-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Lead, Total	EPA 3050B	6020	100	98.3	98	70-130	

Approved By: _____

SS

Date: _____

10/27/04

LCS/020597p

1040-210

CHAIN OF CUSTODY RECORD

Lab: Columbia Analytical ANALYSIS REQUESTED

PROJECT NAME: Bayer Manufacturing
 PROJECT ADDRESS: 1140 South Wells Rd
San Jose CA
 PROJECT MANAGER: Bob Orlando
 SAMPLER SIGNATURE: Bob Orlando

NUMBER OF CONTAINERS

TPH-G 8015M	TPH-D 8015M	TPH-D Low Level 8015M	TPH-Q 8015M	TPH-Char. 8015M FC	BTEX, OXYG, EDB, EDC 82608	FULL VOCs w/Oxygenates 82608	Lead Total Dissolved 6010/6020/7421	STLC	TCLP	Metals: CAM 17 PP13	Ethanol/Methanol 8015B	Ethanol 82608	TPHG/BTEX/OXYG/EOH 82608	TPHG/BTEX/MTBE (carb 410-T03)	Lab Filter	TAT: RUSH 24-HR 48 HR 72HR STD	PID Reading, Odor, Staining, Other TAT, etc.
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SAMPLE ID	SAMPLE LOCATION	DEPTH	DATE	TIME	SAMPLE MATRIX	P.O. # 1296-LAB-9716
1) BSC-1-1	South Well	4'	10/12/04	9:20	Soil	8
2) BSC-1-2	South Well	7'	10/12/04	9:50	Soil	8
3) BSC-1-3	South Well	8'	10/12/04	10:00	Soil	8
4) BSC-1-4	Bottom	6.5'	10/12/04	10:10	Soil	8

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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RELINQUISHED BY: Bob Orlando
 (signature)
 RELINQUISHED BY: Bob Orlando
 (signature)

RECEIVED BY: Wetmore
 (signature)
 RECEIVED BY: Wetmore
 (signature)

Method of shipment, additional comments: Wetmore

DATE: 10/13/04 TIME: 0415
 DATE: 10/13/04 TIME: 1145

Required MRLs to: VCLUFT
☒ USTCF ☒ EDF-COELT ☐ NONE
☐ Fax preliminary data ASAP

Central Coast RWOCB
 San Bernardino County FD
 KCEHD Kern County
 OCHCA Orange County

SAMPLE RECEIPT FORM

Service Request No: L040 2/00 Client: PWE

Sample(s) delivered by: Client _____ CAS Emp X After Hours _____ DHL _____

Golden State Overnight _____ Fed X _____ UPS _____ Other Courier _____

Chain of Custody filled out accurately? Yes X No _____ (See Comments)

Appropriate sample volume and containers? Yes X No _____ (See Comments)

Sufficient labeling on container(s)? Yes X No _____ (See Comments)

Container(s) supplied by CAS? Yes X No _____ (See Comments)

Custody seal(s) intact? N/A X Yes _____ No _____ (See Comments)

Trip Blank(s) received Yes _____ No X

If Trip Blank was supplied by CAS, record serial # _____ -TB- _____

Temperature of sample(s)/cooler 4 °C Temp Blank? Y or N (Circle One) N

Voa's Marked Preserved? Yes _____ No _____ Filled Properly? Yes _____ No _____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes _____ Appropriate Preservation? Yes _____ No _____

RUSH Turn around time? Yes _____ Notified _____ Date & Time _____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl _____	D.O _____	Flash _____	Diss S2- _____	Ferrous Fe _____
24HR	pH _____	Odor _____	Cr+6 _____		
48HR	BOD _____	Color _____	MBAS _____	Nitrate _____	
	Nitrite _____	O-PO4 _____	Sett Sol _____	Turbidity _____	
72HR	Vapors _____				

Notified _____ Date & Time _____

Container(s) received and their preservative(s):

#1 → 4
6- ENCORES
1- 40Z JAR
1- BRASS SLEEVE

~~#5, 6~~ ~~1- 40Z JAR~~ ~~1- BRASS SLEEVE~~ MOVED TO NEW FOLDER
LE w/15/04 0845

Comments _____

SAMPLES RECEIVED ^{SS} 10/13/04 ^{Frozen} on Ice
ENCORES PUT IN ^{LAB} FREEZER 10/14/04 1345

Initials, Date, Time

SW 10/14/04 1315

October 18, 2004

Robert Orlando
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer Manufacturing

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on October 13, 2004. For your reference, these analyses have been assigned our service request number L0402110.


All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 19 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.


Stuart Sigman
Project Chemist

SS/EAB

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl- <i>tert</i> -Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> , SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL.
J	Estimated concentration. Analyte detected above MDL but below MRL.
B	Hit above MRL also found in Method Blank.
E	Analyte concentration above high point of ICAL.
N	Presumptive evidence of compound.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request No.: L0402110
Date Received: 10/13/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Soil samples were received for analysis at Columbia Analytical Services on 10/13/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

The upper control criterion was exceeded for Methyl tert-Butyl Ether in samples BSP1-2MS and BSP1-2DMS. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

The upper control criterion was exceeded for the following analytes in Laboratory Control Sample (LCS) LWG0403749-3: Methyl tert-Butyl Ether and tert-Butyl Ethyl Ether. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Gasoline Range Organics by EPA Method 8015M

No anomalies were encountered.

Approved by SS 3 Date 10/18/04

Client: PW Environmental
Project: Bauer Manufacturing

Service Request: L0402110

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
BSP1-1	L0402110-001	10/12/2004	10/13/2004
BSP1-2	L0402110-002	10/12/2004	10/13/2004
BSP1-2MS	LWG0403749-1	10/12/2004	10/13/2004
BSP1-2DMS	LWG0403749-2	10/12/2004	10/13/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 10/18/04

Title: Project Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402110
 Date Collected: 10/12/2004
 Date Received: 10/13/2004

Volatile Organic Compounds

Sample Name: BSP1-1
 Lab Code: L0402110-001
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.5	1.1	1	10/15/04	10/15/04	LWG0403749	
Toluene	ND	U	4.5	1.2	1	10/15/04	10/15/04	LWG0403749	
Ethylbenzene	ND	U	4.5	1.2	1	10/15/04	10/15/04	LWG0403749	
Total Xylenes	ND	U	14	3.9	1	10/15/04	10/15/04	LWG0403749	
Methyl tert-Butyl Ether	ND	U	9.0	2.5	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Alcohol	ND	U	45	23	1	10/15/04	10/15/04	LWG0403749	
Diisopropyl Ether	ND	U	9.0	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Ethyl Ether	ND	U	9.0	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Amyl Methyl Ether	ND	U	9.0	2.3	1	10/15/04	10/15/04	LWG0403749	
1,2-Dibromoethane (EDB)	ND	U	4.5	1.1	1	10/15/04	10/15/04	LWG0403749	
1,2-Dichloroethane (EDC)	ND	U	4.5	1.1	1	10/15/04	10/15/04	LWG0403749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	62-136	10/15/04	Acceptable
Toluene-d8	96	67-131	10/15/04	Acceptable
4-Bromofluorobenzene	92	64-130	10/15/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402110
 Date Collected: 10/12/2004
 Date Received: 10/13/2004

Volatile Organic Compounds

Sample Name: BSP1-2
 Lab Code: L0402110-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.9	1.1	1	10/15/04	10/15/04	LWG0403749	
Toluene	ND	U	4.9	1.2	1	10/15/04	10/15/04	LWG0403749	
Ethylbenzene	ND	U	4.9	1.2	1	10/15/04	10/15/04	LWG0403749	
Total Xylenes	ND	U	15	3.9	1	10/15/04	10/15/04	LWG0403749	
Methyl tert-Butyl Ether	ND	U	9.7	2.5	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Alcohol	ND	U	49	23	1	10/15/04	10/15/04	LWG0403749	
Diisopropyl Ether	ND	U	9.7	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Ethyl Ether	ND	U	9.7	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Amyl Methyl Ether	ND	U	9.7	2.3	1	10/15/04	10/15/04	LWG0403749	
1,2-Dibromoethane (EDB)	ND	U	4.9	1.1	1	10/15/04	10/15/04	LWG0403749	
1,2-Dichloroethane (EDC)	ND	U	4.9	1.1	1	10/15/04	10/15/04	LWG0403749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	62-136	10/15/04	Acceptable
Toluene-d8	89	67-131	10/15/04	Acceptable
4-Bromofluorobenzene	86	64-130	10/15/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402110

Date Collected: NA

Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403749-4

Units: ug/Kg

Basis: Wet

Extraction Method: EPA 5035

Level: Low

Analysis Method: 8260B

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.1	1	10/15/04	10/15/04	LWG0403749	
Toluene	ND	U	5.0	1.2	1	10/15/04	10/15/04	LWG0403749	
Ethylbenzene	ND	U	5.0	1.2	1	10/15/04	10/15/04	LWG0403749	
Total Xylenes	ND	U	15	3.9	1	10/15/04	10/15/04	LWG0403749	
Methyl tert-Butyl Ether	ND	U	10	2.5	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Alcohol	ND	U	50	23	1	10/15/04	10/15/04	LWG0403749	
Diisopropyl Ether	ND	U	10	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Ethyl Ether	ND	U	10	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Amyl Methyl Ether	ND	U	10	2.3	1	10/15/04	10/15/04	LWG0403749	
1,2-Dibromoethane (EDB)	ND	U	5.0	1.1	1	10/15/04	10/15/04	LWG0403749	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.1	1	10/15/04	10/15/04	LWG0403749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	62-136	10/15/04	Acceptable
Toluene-d8	100	67-131	10/15/04	Acceptable
4-Bromofluorobenzene	99	64-130	10/15/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
BSP1-1	L0402110-001	100	96	92
BSP1-2	L0402110-002	94	89	86
Method Blank	LWG0403749-4	99	100	99
BSP1-2MS	LWG0403749-1	108	99	92
BSP1-2DMS	LWG0403749-2	106	95	91
Lab Control Sample	LWG0403749-3	97	101	97

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	62-136
Sur2 = Toluene-d8	67-131
Sur3 = 4-Bromofluorobenzene	64-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
 Project: Bauer Manufacturing
 Sample Matrix: Soil

Service Request: L0402110
 Date Extracted: 10/15/2004
 Date Analyzed: 10/15/2004

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: BSP1-2
 Lab Code: L0402110-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0403749

Analyte Name	Sample Result	BSP1-2MS LWG0403749-1 Matrix Spike			BSP1-2DMS LWG0403749-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	ND	18.7	19.2	97	20.3	19.2	105	50-135	8	30
Toluene	ND	18.7	19.2	97	20.0	19.2	104	58-127	6	30
Ethylbenzene	ND	19.2	19.2	100	21.5	19.2	112	52-132	11	30
Methyl tert-Butyl Ether	ND	60.1	38.5	156 *	60.9	38.5	158 *	41-150	1	30
1,2-Dichloroethane (EDC)	ND	19.2	19.2	100	19.8	19.2	103	55-141	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110
Date Extracted: 10/15/2004
Date Analyzed: 10/15/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403749

Lab Control Sample
LWG0403749-3

Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Benzene	18.8	20.0	94	64-125
Toluene	19.5	20.0	97	69-119
Ethylbenzene	19.5	20.0	97	68-120
Total Xylenes	57.5	60.0	96	65-121
Methyl tert-Butyl Ether	54.8	40.0	137 *	64-131
tert-Butyl Alcohol	462	400	116	60-128
Diisopropyl Ether	43.3	40.0	108	70-124
tert-Butyl Ethyl Ether	51.9	40.0	130 *	70-126
tert-Amyl Methyl Ether	47.7	40.0	119	74-122
1,2-Dibromoethane (EDB)	18.9	20.0	94	74-118
1,2-Dichloroethane (EDC)	17.6	20.0	88	65-128

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer Manufacturing

Service Request: L0402110

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
BSP1-1	L0402110-001	10/12/2004	10/13/2004
BSP1-2	L0402110-002	10/12/2004	10/13/2004
BSP1-2MS	LWG0403753-1	10/12/2004	10/13/2004
BSP1-2DMS	LWG0403753-2	10/12/2004	10/13/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 10/18/04

Title: Project Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110
Date Collected: 10/12/2004
Date Received: 10/13/2004

Gasoline Range Organics (GRO)

Sample Name: BSP1-1
Lab Code: L0402110-001
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.095	0.045	1	10/16/04	10/16/04	LWG0403753	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	85	58-119	10/16/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110
Date Collected: 10/12/2004
Date Received: 10/13/2004

Gasoline Range Organics (GRO)

Sample Name: BSP1-2
Lab Code: L0402110-002
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.099	0.045	1	10/16/04	10/16/04	LWG0403753	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	85	58-119	10/16/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403753-4
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	10/16/04	10/16/04	LWG0403753	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	93	58-119	10/16/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BSP1-1	L0402110-001	85
BSP1-2	L0402110-002	85
Method Blank	LWG0403753-4	93
BSP1-2MS	LWG0403753-1	96
BSP1-2DMS	LWG0403753-2	102
Lab Control Sample	LWG0403753-3	105

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110
Date Extracted: 10/16/2004
Date Analyzed: 10/16/2004

Matrix Spike/Duplicate Matrix Spike Summary
Gasoline Range Organics (GRO)

Sample Name: BSP1-2
Lab Code: L0402110-002

Units: mg/Kg
Basis: Wet

Extraction Method: EPA 5035
Analysis Method: 8015B

Level: Low
Extraction Lot: LWG0403753

Analyte Name	Sample Result	BSP1-2MS LWG0403753-1 Matrix Spike			BSP1-2DMS LWG0403753-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	ND	0.821	1.00	82	0.759	0.926	82	62-121	8	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing
Sample Matrix: Soil

Service Request: L0402110
Date Extracted: 10/16/2004
Date Analyzed: 10/16/2004

Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403753

Lab Control Sample
LWG0403753-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Gasoline	0.953	1.00	95	76-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

SAMPLE RECEIPT FORM

Service Request No: L040 2110 Client: PW ENV

Sample(s) delivered by: Client _____ CAS Emp ✓ After Hours _____ DHL _____

Golden State Overnight _____ Fed X _____ UPS _____ Other Courier _____

Chain of Custody filled out accurately? Yes ✓ No _____(See Comments)

Appropriate sample volume and containers? Yes ✓ No (See Comments)

Sufficient labeling on container(s) ? Yes ✓ No _____ (See Comments)

Container(s) supplied by CAS? Yes ____ No ✓ (See Comments)

Custody seal(s) intact? N/A ✓ Yes No (See Comments)

Trip Blank(s) received Yes _____ No ✓

If Trip Blank was supplied by CAS, record serial # _____-TB-_____

Temperature of sample(s)/cooler 4 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes _____ No _____ Filled Properly? Yes _____ No _____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes _____ Appropriate Preservation? Yes _____ No _____

RUSH Turn around time? Yes ✓ Notified Dixie, Hene Date & Time 6/4/24 150

Short Hold-Time Analysis (check all that apply)

ASAP Res Cl_____ D.O _____ Flash _____ Diss S2- _____ Ferrous Fe _____

24HR pH _____ Odor _____ Cr+6 _____

48HR ¹ BOD____ Color____ MBAS____ Nitrate____

Nitrite____ O-PO4____ Sett Sol____ Turbidity____

72HR & Vapors_____

Notified	Date & Time
----------	-------------

Container(s) received and their preservative(s):

-10-22 1-4oz Jar
1-Brass Soil Sleeve

Comments RUSA

Initials, Date, Time LE 6/15/04 0945 r:\sr_forms\cooler.doc Rev. 2/25/02

October 28, 2004

Robert Orlando
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer & Collins

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on October 14, 2004. For your reference, these analyses have been assigned our service request number L0402108.

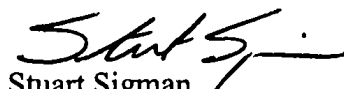
All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 26 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.



Stuart Sigman
Project Chemist

SS/EAB

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl-tert-Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request No.: L0402108
Date Received: 10/14/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Soil samples were received for analysis at Columbia Analytical Services on 10/14/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C or frozen at -20°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

The upper control criterion was exceeded for Methyl tert-Butyl Ether in samples BSCb1-2MS and BSCb1-2DMS. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

The upper control criterion was exceeded for the following analytes in Laboratory Control Sample (LCS) LWG0403749-3: Methyl tert-Butyl Ether and tert-Butyl Ethyl Ether. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Gasoline Range Organics by EPA Method 8015M

Sample BSCb1-1 was analyzed as medium level soil required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

The control criterion was exceeded for the Bromofluorobenzene surrogates in sample BSCb1-1 due to matrix interferences. Due to the presence of background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Total Metals

Batch QC was run along with these samples. These results are provided for information purposes only. The Method Blank and Laboratory Control Sample were within control criteria. No anomalies were encountered during this analysis.

Approved by _____

SS 3

Date

10/28/04

Client: PW Environmental
Project: Bauer & Collins

Service Request: L0402108

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
BSCb1-1	L0402108-001	10/13/2004	10/14/2004
BSCb1-2	L0402108-002	10/13/2004	10/14/2004
BSCb1-3	L0402108-003	10/13/2004	10/14/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 10/28/04

Title: Project Chemist

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins
 Sample Matrix: Soil

Service Request: L0402108
 Date Collected: 10/13/2004
 Date Received: 10/14/2004

Volatile Organic Compounds

Sample Name: BSCb1-1
 Lab Code: L0402108-001
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.2	1.1	1	10/15/04	10/15/04	LWG0403749	
Toluene	ND	U	4.2	1.2	1	10/15/04	10/15/04	LWG0403749	
Ethylbenzene	ND	U	4.2	1.2	1	10/15/04	10/15/04	LWG0403749	
Total Xylenes	ND	U	13	3.9	1	10/15/04	10/15/04	LWG0403749	
Methyl tert-Butyl Ether	ND	U	8.4	2.5	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Alcohol	ND	U	42	23	1	10/15/04	10/15/04	LWG0403749	
Diisopropyl Ether	ND	U	8.4	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Ethyl Ether	ND	U	8.4	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Amyl Methyl Ether	ND	U	8.4	2.3	1	10/15/04	10/15/04	LWG0403749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	62-136	10/15/04	Acceptable
Toluene-d8	106	67-131	10/15/04	Acceptable
4-Bromofluorobenzene	121	64-130	10/15/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins
 Sample Matrix: Soil

Service Request: L0402108
 Date Collected: 10/13/2004
 Date Received: 10/14/2004

Volatile Organic Compounds

Sample Name: BSCb1-2
 Lab Code: L0402108-002

Units: ug/Kg
 Basis: Wet

Extraction Method: EPA 5035
 Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.4	1.1	1	10/15/04	10/15/04	LWG0403749	
Toluene	ND	U	4.4	1.2	1	10/15/04	10/15/04	LWG0403749	
Ethylbenzene	ND	U	4.4	1.2	1	10/15/04	10/15/04	LWG0403749	
Total Xylenes	ND	U	13	3.9	1	10/15/04	10/15/04	LWG0403749	
Methyl tert-Butyl Ether	ND	U	8.7	2.5	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Alcohol	ND	U	44	23	1	10/15/04	10/15/04	LWG0403749	
Diisopropyl Ether	ND	U	8.7	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Ethyl Ether	ND	U	8.7	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Amyl Methyl Ether	ND	U	8.7	2.3	1	10/15/04	10/15/04	LWG0403749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	62-136	10/15/04	Acceptable
Toluene-d8	101	67-131	10/15/04	Acceptable
4-Bromofluorobenzene	98	64-130	10/15/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins
 Sample Matrix: Soil

Service Request: L0402108
 Date Collected: 10/13/2004
 Date Received: 10/14/2004

Volatile Organic Compounds

Sample Name: BSCb1-3
 Lab Code: L0402108-003
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.7	1.1	1	10/15/04	10/15/04	LWG0403749	
Toluene	ND	U	4.7	1.2	1	10/15/04	10/15/04	LWG0403749	
Ethylbenzene	ND	U	4.7	1.2	1	10/15/04	10/15/04	LWG0403749	
Total Xylenes	ND	U	14	3.9	1	10/15/04	10/15/04	LWG0403749	
Methyl tert-Butyl Ether	ND	U	9.3	2.5	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Alcohol	ND	U	47	23	1	10/15/04	10/15/04	LWG0403749	
Diisopropyl Ether	ND	U	9.3	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Ethyl Ether	ND	U	9.3	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Amyl Methyl Ether	ND	U	9.3	2.3	1	10/15/04	10/15/04	LWG0403749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	62-136	10/15/04	Acceptable
Toluene-d8	96	67-131	10/15/04	Acceptable
4-Bromofluorobenzene	91	64-130	10/15/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins
 Sample Matrix: Soil

Service Request: L0402108
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403749-4
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.1	1	10/15/04	10/15/04	LWG0403749	
Toluene	ND	U	5.0	1.2	1	10/15/04	10/15/04	LWG0403749	
Ethylbenzene	ND	U	5.0	1.2	1	10/15/04	10/15/04	LWG0403749	
Total Xylenes	ND	U	15	3.9	1	10/15/04	10/15/04	LWG0403749	
Methyl tert-Butyl Ether	ND	U	10	2.5	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Alcohol	ND	U	50	23	1	10/15/04	10/15/04	LWG0403749	
Diisopropyl Ether	ND	U	10	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Butyl Ethyl Ether	ND	U	10	2.1	1	10/15/04	10/15/04	LWG0403749	
tert-Amyl Methyl Ether	ND	U	10	2.3	1	10/15/04	10/15/04	LWG0403749	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	62-136	10/15/04	Acceptable
Toluene-d8	100	67-131	10/15/04	Acceptable
4-Bromofluorobenzene	99	64-130	10/15/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
BSCb1-1	L0402108-001	101	106	121
BSCb1-2	L0402108-002	100	101	98
BSCb1-3	L0402108-003	97	96	91
Method Blank	LWG0403749-4	99	100	99
Batch QC	L0402110-002	94	89	86
Batch QCMS	LWG0403749-1	108	99	92
Batch QCDMS	LWG0403749-2	106	95	91
Lab Control Sample	LWG0403749-3	97	101	97

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	62-136
Sur2 = Toluene-d8	67-131
Sur3 = 4-Bromofluorobenzene	64-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: PW Environmental
 Project: Bauer & Collins
 Sample Matrix: Soil

Service Request: L0402108
 Date Extracted: 10/15/2004
 Date Analyzed: 10/15/2004

Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds

Sample Name: Batch QC
 Lab Code: L0402110-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0403749

Analyte Name	Sample Result	Batch QCMS LWG0403749-1 Matrix Spike			Batch QCDMS LWG0403749-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	ND	18.7	19.2	97	20.3	19.2	105	50-135	8	30
Toluene	ND	18.7	19.2	97	20.0	19.2	104	58-127	6	30
Ethylbenzene	ND	19.2	19.2	100	21.5	19.2	112	52-132	11	30
Methyl tert-Butyl Ether	ND	60.1	38.5	156 *	60.9	38.5	158 *	41-150	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Extracted: 10/15/2004
Date Analyzed: 10/15/2004

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403749

Lab Control Sample
LWG0403749-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Benzene	18.8	20.0	94	64-125
Toluene	19.5	20.0	97	69-119
Ethylbenzene	19.5	20.0	97	68-120
Total Xylenes	57.5	60.0	96	65-121
Methyl tert-Butyl Ether	54.8	40.0	137 *	64-131
tert-Butyl Alcohol	462	400	116	60-128
Diisopropyl Ether	43.3	40.0	108	70-124
tert-Butyl Ethyl Ether	51.9	40.0	130 *	70-126
tert-Amyl Methyl Ether	47.7	40.0	119	74-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer & Collins

Service Request: L0402108

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
BSCb1-1	L0402108-001	10/13/2004	10/14/2004
BSCb1-2	L0402108-002	10/13/2004	10/14/2004
BSCb1-3	L0402108-003	10/13/2004	10/14/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 10/28/04

Title: Project Chemist

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Collected: 10/13/2004
Date Received: 10/14/2004

Gasoline Range Organics (GRO)

Sample Name: BSCb1-1
Lab Code: L0402108-001
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	210	D	9.0	4.6	2	10/22/04	10/23/04	LWG0403841	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	643	62-133	10/23/04	Outside Control Limits

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Collected: 10/13/2004
Date Received: 10/14/2004

Gasoline Range Organics (GRO)

Sample Name: BSCb1-2
Lab Code: L0402108-002
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.085	0.045	1	10/23/04	10/23/04	LWG0403834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	69	58-119	10/23/04	Acceptable

Comments: _____

Analytical Results

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Collected: 10/13/2004
Date Received: 10/14/2004

Gasoline Range Organics (GRO)

Sample Name: BSCb1-3
Lab Code: L0402108-003
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.084	0.045	1	10/23/04	10/23/04	LWG0403834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	71	58-119	10/23/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403834-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	10/22/04	10/22/04	LWG0403834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	90	58-119	10/22/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403841-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	5.0	2.3	1	10/22/04	10/22/04	LWG0403841	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	97	62-133	10/22/04	Acceptable

Comments: _____

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BSCb1-2	L0402108-002	69
BSCb1-3	L0402108-003	71
Method Blank	LWG0403834-3	90
Lab Control Sample	LWG0403834-1	101
Duplicate Lab Control Sample	LWG0403834-2	100

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BSCb1-1	L0402108-001	643 D *
Method Blank	LWG0403841-3	97
Lab Control Sample	LWG0403841-1	106
Duplicate Lab Control Sample	LWG0403841-2	99

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 62-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Extracted: 10/22/2004
Date Analyzed: 10/22/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403834

Analyte Name	Lab Control Sample LWG0403834-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403834-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.945	1.00	94	0.935	1.00	93	76-117	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Extracted: 10/22/2004
Date Analyzed: 10/23/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med
Extraction Lot: LWG0403841

Analyte Name	Lab Control Sample LWG0403841-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403841-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	46.5	51.0	91	43.4	51.0	85	74-111	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Collected: 10/13/04
Date Received: 10/14/04

Lead, Total

Prep Method: EPA 3050B
Analysis Method: 6020
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Result Notes
BSCb1-1	L0402108-001	0.4	0.04	1	10/18/04	10/19/04	17	
BSCb1-2	L0402108-002	0.4	0.04	1	10/18/04	10/19/04	7.2	
BSCb1-3	L0402108-003	0.4	0.04	1	10/18/04	10/19/04	7.5	
Method Blank	L041018-MB3	0.4	0.04	1	10/18/04	10/19/04	ND	

Approved By: _____

55

Date: _____

10/28/04

1A/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins
Sample Matrix: Soil

Service Request: L0402108
Date Collected: NA
Date Received: NA
Date Digested: 10/18/04
Date Analyzed: 10/19/04

Matrix Spike/Duplicate Matrix Spike Summary
 Lead, Total

Sample Name: Batch QC
Lab Code: L0402087-005MS, L0402087-005DMS
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	PQL	Spike Level		Sample Result	Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
									MS	DMS			
				MS	DMS		MS	DMS	MS	DMS			
Lead, Total	EPA 3050B	6020	0.4	100	100	ND	101	101	101	101	70-130	<1	

Approved By: SS Date: 10/28/04

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins
LCS Matrix: Soil

Service Request: L0402108
Date Collected: NA
Date Received: NA
Date Digested: 10/18/04
Date Analyzed: 10/19/04

Laboratory Control Sample Summary
Lead, Total

Sample Name: Lab Control Sample
Lab Code: L041018-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Lead, Total	EPA 3050B	6020	100	98.3	98	70-130	

Approved By: _____ **SS** **Date:** 10/28/04

LCS/020597p



10402108

230 DOVE COURT ■ SANTA PAULA ■ CALIFORNIA ■ 93060
(805) 656-4677 ■ (805) 525-5563 ■ FAX (805) 525-2896

PROJECT NAME: Bauer & Collins		PROJECT ADDRESS: 1140 S. Wells Rd.					
PROJECT MANAGER: T. Watson							
SAMPLER SIGNATURE: T. Watson		P.O. # LAB-824		1286-			
SAMPLE ID	SAMPLE LOCATION	DEPTH	DATE	TIME	SAMPLE MATRIX		

BSCb1-1	North wall / slot cut #2	5'	10/13/04	11:12	Soil
BSCb1-2	North wall / slot #2	8'	10/13/04	11:21	Soil
BSCb1-3	Bottom / slot #2	8'	10/13/04	11:30	Soil

[illegible]

[illegible]

RELINQUISHED BY: (signature)	<i>[Signature]</i>	RECEIVED BY: (signature)	<i>[Signature]</i>
RELINQUISHED BY: (signature)	<i>[Signature]</i>	RECEIVED BY: (signature)	<i>[Signature]</i>
Method of shipment, additional comments: <i>Express</i>			

☒ Fax preliminary data ASAP

Pres Ice (Dry) HCl None	TPH-G 8015M	TPH-D 8015M	TPH-D Low Level 8015M	TPH-O 8015M	TPH-Char. 8015M FC	81TEX, OXYG EDB, EDC 8260B	FULL VOCs w/Oxygenates 8260B	Lead Total Dissolved 6010/6020/7421	STLC	TCLP	Metals: CAM 17 PP13	Ethanol/Methanol 8015B	Ethanol 8260B	TPHG/BTEX/OXYG/EOH 8260B	TPHG/BTEX/MTBE (Carb 410-103)	Lab Filter	TAT: RUSH 24-HR 48 HR 72HR STD	PID Reading, Odor, Staining, Other TAT, etc.
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X		X							92 ppm
X		X							.2 ppm
X		X							.8 ppm

[illegible][illegible][illegible]

11/14/04	DATE	0910	TIME
<i>[Signature]</i>	DATE	101404	TIME 1015

Los Angeles RWQCB	Lahontan RWQCB	Central Coast RWQCB	San Bernardino County FD	KCEHD Kern County	OCHCA Orange County
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SAMPLE RECEIPT FORM

Service Request No: L040 2108 Client: PW EN

Sample(s) delivered by: Client _____ CAS Emp ☒ After Hours _____ DHL _____

Golden State Overnight _____ Fed X _____ UPS _____ Other Courier _____

Chain of Custody filled out accurately? Yes ☒ No _____ (See Comments)

Appropriate sample volume and containers? Yes ☒ No _____ (See Comments)

Sufficient labeling on container(s)? Yes ☒ No _____ (See Comments)

Container(s) supplied by CAS? Yes ☒ No _____ (See Comments)

Custody seal(s) intact? N/A ☒ Yes _____ No _____ (See Comments)

Trip Blank(s) received Yes _____ No ☒

If Trip Blank was supplied by CAS, record serial # _____ -TB- _____

Temperature of sample(s)/cooler 3 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes _____ No _____ Filled Properly? Yes _____ No _____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes _____ Appropriate Preservation? Yes _____ No _____

RUSH Turn around time? Yes _____ Notified _____ Date & Time _____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl _____	D.O _____	Flash _____	Diss S2- _____	Ferrous Fe _____
24HR	pH _____	Odor _____	Cr+6 _____		
48HR	BOD _____	Color _____	MBAS _____	Nitrate _____	
	Nitrite _____	O-PO4 _____	Sett Sol _____	Turbidity _____	
72HR	Vapors _____				

Notified _____ Date & Time _____

Container(s) received and their preservative(s):

-1 → -3 = 1-402 Jar
6- ENCORES

Comments NO TAT ON CHAIN. ENCORES TRANSFERRED
TO FREEZER UPON RECEIPT IN LAB

October 27, 2004

Robert Orlando
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer & Collins Rem. EXC

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on October 15, 2004. For your reference, these analyses have been assigned our service request number L0402116.


All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 29 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.



Stuart Sigman
Project Chemist

SS/sa

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request No.: L0402116
Date Received: 10/15/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

The samples were received for analysis at Columbia Analytical Services on 10/15/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C or frozen at -20°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

The control criteria were exceeded for the following surrogates in sample BEX2-1 due to matrix interferences: Toluene-d8 and 4-Bromofluorobenzene. A reanalysis was performed, but produced similar results. The results of the original analysis are reported. No further corrective action was required.

The upper control criterion was exceeded for the following analytes in Laboratory Control Samples (LCS and DLCS) of Extraction Lot: LWG0403763 and LWG0403796: Methyl tert-Butyl Ether, tert-Butyl Alcohol, tert-Butyl Ethyl Ether and tert-Amyl Methyl Ether. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Gasoline Range Organics by EPA Method 8015M

Sample BEX2-1 was analyzed as medium level soil due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

The control criterion was exceeded for the Bromofluorobenzene surrogates in samples BEX2-1 and BEX2-2 due to matrix interferences. Due to the presence of background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Total Metals

Batch QC was run along with these samples. These results are provided for information purposes only. The Method Blank and Laboratory Control Sample were within control criteria. No anomalies were encountered during this analysis.

Approved by _____

SS 2

Date

10/27/04

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl-tert-Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

Client: PW Environmental
Project: Bauer & Collins Rem. EXC

Service Request: L0402116

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
BEX2-1	L0402116-001	10/15/2004	10/15/2004
BEX2-2	L0402116-002	10/15/2004	10/15/2004
BEX2-3	L0402116-003	10/15/2004	10/15/2004
BEX2-4	L0402116-004	10/15/2004	10/15/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 10/27/04

Title: Project Chemist

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Analytical Results

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Collected: 10/15/2004
 Date Received: 10/15/2004

Volatile Organic Compounds

Sample Name: BEX2-1
 Lab Code: L0402116-001
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	4.1	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	23		4.1	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	12	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	8.2	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	41	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	8.2	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	8.2	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	8.2	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	4.1	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	62-136	10/18/04	Acceptable
Toluene-d8	132	67-131	10/18/04	Outside Control Limits
4-Bromofluorobenzene	165	64-130	10/18/04	Outside Control Limits

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Collected: 10/15/2004
 Date Received: 10/15/2004

Volatile Organic Compounds

Sample Name: BEX2-2
 Lab Code: L0402116-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.6	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	4.6	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	ND	U	4.6	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	14	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	9.1	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	46	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	9.1	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	9.1	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	9.1	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	4.6	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	4.6	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	62-136	10/18/04	Acceptable
Toluene-d8	108	67-131	10/18/04	Acceptable
4-Bromofluorobenzene	99	64-130	10/18/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Collected: 10/15/2004
 Date Received: 10/15/2004

Volatile Organic Compounds

Sample Name: BEX2-3
 Lab Code: L0402116-003
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.3	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	4.3	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	ND	U	4.3	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	13	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	8.5	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	43	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	8.5	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	8.5	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	8.5	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	4.3	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	4.3	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	62-136	10/18/04	Acceptable
Toluene-d8	100	67-131	10/18/04	Acceptable
4-Bromofluorobenzene	93	64-130	10/18/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Collected: 10/15/2004
 Date Received: 10/15/2004

Volatile Organic Compounds

Sample Name: BEX2-4
 Lab Code: L0402116-004
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.2	1.1	1	10/19/04	10/19/04	LWG0403796	
Toluene	ND	U	4.2	1.2	1	10/19/04	10/19/04	LWG0403796	
Ethylbenzene	ND	U	4.2	1.2	1	10/19/04	10/19/04	LWG0403796	
Total Xylenes	ND	U	13	3.9	1	10/19/04	10/19/04	LWG0403796	
Methyl tert-Butyl Ether	ND	U	8.4	2.5	1	10/19/04	10/19/04	LWG0403796	
tert-Butyl Alcohol	ND	U	42	23	1	10/19/04	10/19/04	LWG0403796	
Diisopropyl Ether	ND	U	8.4	2.1	1	10/19/04	10/19/04	LWG0403796	
tert-Butyl Ethyl Ether	ND	U	8.4	2.1	1	10/19/04	10/19/04	LWG0403796	
tert-Amyl Methyl Ether	ND	U	8.4	2.3	1	10/19/04	10/19/04	LWG0403796	
1,2-Dibromoethane (EDB)	ND	U	4.2	1.1	1	10/19/04	10/19/04	LWG0403796	
1,2-Dichloroethane (EDC)	ND	U	4.2	1.1	1	10/19/04	10/19/04	LWG0403796	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	62-136	10/19/04	Acceptable
Toluene-d8	103	67-131	10/19/04	Acceptable
4-Bromofluorobenzene	98	64-130	10/19/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403763-3
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.1	1	10/18/04	10/18/04	LWG0403763	
Toluene	ND	U	5.0	1.2	1	10/18/04	10/18/04	LWG0403763	
Ethylbenzene	ND	U	5.0	1.2	1	10/18/04	10/18/04	LWG0403763	
Total Xylenes	ND	U	15	3.9	1	10/18/04	10/18/04	LWG0403763	
Methyl tert-Butyl Ether	ND	U	10	2.5	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Alcohol	ND	U	50	23	1	10/18/04	10/18/04	LWG0403763	
Diisopropyl Ether	ND	U	10	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Butyl Ethyl Ether	ND	U	10	2.1	1	10/18/04	10/18/04	LWG0403763	
tert-Amyl Methyl Ether	ND	U	10	2.3	1	10/18/04	10/18/04	LWG0403763	
1,2-Dibromoethane (EDB)	ND	U	5.0	1.1	1	10/18/04	10/18/04	LWG0403763	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.1	1	10/18/04	10/18/04	LWG0403763	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	62-136	10/18/04	Acceptable
Toluene-d8	103	67-131	10/18/04	Acceptable
4-Bromofluorobenzene	98	64-130	10/18/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403796-3

Units: ug/Kg
 Basis: Wet

Extraction Method: EPA 5035
 Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.1	1	10/19/04	10/19/04	LWG0403796	
Toluene	ND	U	5.0	1.2	1	10/19/04	10/19/04	LWG0403796	
Ethylbenzene	ND	U	5.0	1.2	1	10/19/04	10/19/04	LWG0403796	
Total Xylenes	ND	U	15	3.9	1	10/19/04	10/19/04	LWG0403796	
Methyl tert-Butyl Ether	ND	U	10	2.5	1	10/19/04	10/19/04	LWG0403796	
tert-Butyl Alcohol	ND	U	50	23	1	10/19/04	10/19/04	LWG0403796	
Diisopropyl Ether	ND	U	10	2.1	1	10/19/04	10/19/04	LWG0403796	
tert-Butyl Ethyl Ether	ND	U	10	2.1	1	10/19/04	10/19/04	LWG0403796	
tert-Amyl Methyl Ether	ND	U	10	2.3	1	10/19/04	10/19/04	LWG0403796	
1,2-Dibromoethane (EDB)	ND	U	5.0	1.1	1	10/19/04	10/19/04	LWG0403796	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.1	1	10/19/04	10/19/04	LWG0403796	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	82	62-136	10/19/04	Acceptable
Toluene-d8	95	67-131	10/19/04	Acceptable
4-Bromofluorobenzene	92	64-130	10/19/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
BEX2-1	L0402116-001	98	132 *	165 *
BEX2-2	L0402116-002	98	108	99
BEX2-3	L0402116-003	95	100	93
BEX2-4	L0402116-004	103	103	98
Method Blank	LWG0403763-3	104	103	98
Method Blank	LWG0403796-3	82	95	92
Lab Control Sample	LWG0403763-1	106	103	101
Duplicate Lab Control Sample	LWG0403763-2	104	101	98
Lab Control Sample	LWG0403796-1	103	99	93
Duplicate Lab Control Sample	LWG0403796-2	99	102	94

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	62-136
Sur2 = Toluene-d8	67-131
Sur3 = 4-Bromofluorobenzene	64-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Extracted: 10/18/2004
 Date Analyzed: 10/18/2004

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0403763

Analyte Name	Lab Control Sample LWG0403763-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403763-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	21.1	20.0	105	18.9	20.0	95	64-125	11	30
Toluene	21.4	20.0	107	19.0	20.0	95	69-119	12	30
Ethylbenzene	22.2	20.0	111	19.5	20.0	98	68-120	13	30
Total Xylenes	66.6	60.0	111	57.7	60.0	96	65-121	14	30
Methyl tert-Butyl Ether	60.7	40.0	152 *	55.7	40.0	139 *	64-131	9	30
tert-Butyl Alcohol	456	400	114	397	400	99	60-128	14	30
Diisopropyl Ether	48.9	40.0	122	43.0	40.0	107	70-124	13	30
tert-Butyl Ethyl Ether	55.7	40.0	139 *	51.5	40.0	129 *	70-126	8	30
tert-Amyl Methyl Ether	52.0	40.0	130 *	47.9	40.0	120	74-122	8	30
1,2-Dibromoethane (EDB)	20.6	20.0	103	19.0	20.0	95	74-118	8	30
1,2-Dichloroethane (EDC)	19.9	20.0	99	18.1	20.0	91	65-128	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
 Project: Bauer & Collins Rem. EXC
 Sample Matrix: Soil

Service Request: L0402116
 Date Extracted: 10/19/2004
 Date Analyzed: 10/19/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0403796

Analyte Name	Lab Control Sample LWG0403796-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403796-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	20.0	20.0	100	18.3	20.0	92	64-125	9	30
Toluene	20.8	20.0	104	19.5	20.0	98	69-119	6	30
Ethylbenzene	21.1	20.0	106	19.4	20.0	97	68-120	9	30
Total Xylenes	63.7	60.0	106	57.8	60.0	96	65-121	10	30
Methyl tert-Butyl Ether	58.9	40.0	147 *	55.8	40.0	139 *	64-131	5	30
tert-Butyl Alcohol	529	400	132 *	419	400	105	60-128	23	30
Diisopropyl Ether	42.2	40.0	106	39.5	40.0	99	70-124	7	30
tert-Butyl Ethyl Ether	52.4	40.0	131 *	49.3	40.0	123	70-126	6	30
tert-Amyl Methyl Ether	49.5	40.0	124 *	46.8	40.0	117	74-122	6	30
1,2-Dibromoethane (EDB)	21.1	20.0	106	20.2	20.0	101	74-118	5	30
1,2-Dichloroethane (EDC)	20.0	20.0	100	18.4	20.0	92	65-128	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer & Collins Rem. EXC

Service Request: L0402116

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
BEX2-1	L0402116-001	10/15/2004	10/15/2004
BEX2-2	L0402116-002	10/15/2004	10/15/2004
BEX2-3	L0402116-003	10/15/2004	10/15/2004
BEX2-4	L0402116-004	10/15/2004	10/15/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 10/27/04

Title: Project Chemist

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Cover Page - Organic

Page 1 of 1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: 10/15/2004
Date Received: 10/15/2004

Gasoline Range Organics (GRO)

Sample Name: BEX2-1
Lab Code: L0402116-001
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	330	D	8.8	4.6	2	10/22/04	10/23/04	LWG0403841	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	625	62-133	10/23/04	Outside Control Limits

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: 10/15/2004
Date Received: 10/15/2004

Gasoline Range Organics (GRO)

Sample Name: BEX2-2
Lab Code: L0402116-002
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	1.3		0.087	0.045	1	10/23/04	10/23/04	LWG0403834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	497	58-119	10/23/04	Outside Control Limits

Comments: _____

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: 10/15/2004
Date Received: 10/15/2004

Gasoline Range Organics (GRO)

Sample Name: BEX2-3
Lab Code: L0402116-003
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	0.091		0.084	0.045	1	10/23/04	10/23/04	LWG0403834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	77	58-119	10/23/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: 10/15/2004
Date Received: 10/15/2004

Gasoline Range Organics (GRO)

Sample Name: BEX2-4
Lab Code: L0402116-004
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.093	0.045	1	10/23/04	10/23/04	LWG0403834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	73	58-119	10/23/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403834-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	10/22/04	10/22/04	LWG0403834	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	90	58-119	10/22/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403841-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	5.0	2.3	1	10/22/04	10/22/04	LWG0403841	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	97	62-133	10/22/04	Acceptable

Comments: _____

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BEX2-2	L0402116-002	497 *
BEX2-3	L0402116-003	77
BEX2-4	L0402116-004	73
Method Blank	LWG0403834-3	90
Lab Control Sample	LWG0403834-1	101
Duplicate Lab Control Sample	LWG0403834-2	100

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BEX2-1	L0402116-001	625 D *
Method Blank	LWG0403841-3	97
Lab Control Sample	LWG0403841-1	106
Duplicate Lab Control Sample	LWG0403841-2	99

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 62-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Extracted: 10/22/2004
Date Analyzed: 10/22/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403834

Analyte Name	Lab Control Sample LWG0403834-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403834-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.945	1.00	94	0.935	1.00	93	76-117	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Extracted: 10/22/2004
Date Analyzed: 10/23/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med
Extraction Lot: LWG0403841

Analyte Name	Lab Control Sample LWG0403841-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403841-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	46.5	51.0	91	43.4	51.0	85	74-111	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: 10/15/04
Date Received: 10/15/04

Lead, Total

Prep Method: EPA 3050B
Analysis Method: 6020
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Result Notes
BEX2-1	L0402116-001	0.4	0.04	1	10/18/04	10/19/04	15	
BEX2-2	L0402116-002	0.4	0.04	1	10/18/04	10/19/04	11	
BEX2-3	L0402116-003	0.4	0.04	1	10/18/04	10/19/04	9.1	
BEX2-4	L0402116-004	0.4	0.04	1	10/18/04	10/19/04	7.8	
Method Blank	L041018-MB3	0.4	0.04	1	10/18/04	10/19/04	ND	

Approved By: _____

Date: _____

1A/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
Sample Matrix: Soil

Service Request: L0402116
Date Collected: NA
Date Received: NA
Date Digested: 10/18/04
Date Analyzed: 10/19/04

Matrix Spike/Duplicate Matrix Spike Summary
Lead, Total

Sample Name: Batch QC
Lab Code: L0402087-005MS, L0402087-005DMS
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	PQL	Spike Level		Sample Result	Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Lead, Total	EPA 3050B	6020	0.4	100	100	ND	101	101	101	101	70-130	<1	

Approved By: SS Date: 10/27/04

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins Rem. EXC
LCS Matrix: Soil

Service Request: L0402116
Date Collected: NA
Date Received: NA
Date Digested: 10/18/04
Date Analyzed: 10/19/04

Laboratory Control Sample Summary
Lead, Total

Sample Name: Lab Control Sample
Lab Code: L041018-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery	Result Notes
						Acceptance Limits	
Lead, Total	EPA 3050B	6020	100	98.3	98	70-130	

Approved By: SS **Date:** 10/27/04

LCS/020597p



ENVIRONMENTAL L0402116
230 DOVE COURT • SANTA PAULA • CALIFORNIA • 93060
(805) 656-4677 • (805) 525-5563 • FAX (805) 525-2896

CHAIN OF CUSTODY RECORD

PROJECT NAME: Bauer & Collins - Ram Exc
PROJECT ADDRESS: 1140 S. Wells Road
Saticoy CA
PROJECT MANAGER: Robert Orlando T. Watson
SAMPLER SIGNATURE: [Signature] P.O. # 8754
1286-LAB

SAMPLE ID	SAMPLE LOCATION	DEPTH	DATE	TIME	SAMPLE MATRIX
BEX2-1	Southern sidewalk	6.5'	10/15/04	9:45	Soil
BEX2-2	eastern sidewalk	6.5'		09:54	Soil
BEX2-3	Northern sidewalk	6.0'		10:04	Soil
BEX2-4	Bottom Sample	8.5'		10:11	Soil

NUMBER OF CONTAINERS									
TPH-G 8015M	TPH-D 8015M	TPH-D Low Level 8015M	TPH-Q 8015M	TPH-Chat, 8015M FC	BTEX, OXYG, EDB, EDC 8260B	FULL VOCs w/Oxygenates 8260B	Lead Total / Dissolved 6015/6020/7421	STLC	TCLP
Metals: CAM 17 PP13	Ethanol/Methanol 8015B	Ethanol 8260B	TPHG/BTEX/OXYG/EOH 8260B	TPHG/BTEX/MTBE (carb 410-103)	Lab Filter	TAT: RUSH 24-HR 48 HR 72HR STD	PID Reading, Odor, Staining, Other TAT, etc.		

RELINQUISHED BY: [Signature]
RELINQUISHED BY: [Signature]
Method of shipment, additional comments: WATSON

RECEIVED BY: [Signature]
RECEIVED BY: [Signature]
DATE: 10/15/04 TIME: 1030
DATE: 10/15/04 TIME: 1135

Required MRLs to: VCLUFT
☒ USTCF ☒ EDF-COELT ☐ NONE
Fax preliminary data ASAP ☒

Central Coast RWOCB	San Bernardino County FD	KCEHD Kern County	OCHCA Orange County
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SAMPLE RECEIPT FORM

Service Request No: L0402116 Client: DWB

Sample(s) delivered by: Client _____ CAS Emp ☒ After Hours _____ DHL _____
 Golden State Overnight _____ Fed X _____ UPS _____ Other Courier _____

Chain of Custody filled out accurately? Yes ☒ No _____ (See Comments)

Appropriate sample volume and containers? Yes ☒ No _____ (See Comments)

Sufficient labeling on container(s)? Yes ☒ No _____ (See Comments)

Container(s) supplied by CAS? Yes ☒ No _____ (See Comments)

Custody seal(s) intact? N/A ☒ Yes _____ No _____ (See Comments)

Trip Blank(s) received Yes _____ No ☒

If Trip Blank was supplied by CAS, record serial # _____ -TB- _____

Temperature of sample(s)/cooler 4 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes _____ No _____ Filled Properly? Yes _____ No _____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes _____ Appropriate Preservation? Yes _____ No _____

RUSH Turn around time? Yes _____ Notified _____ Date & Time _____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl _____	D.O _____	Flash _____	Diss S2- _____	Ferrous Fe _____
24HR	pH _____	Odor _____	Cr+6 _____		
48HR	BOD _____	Color _____	MBAS _____	Nitrate _____	
	Nitrite _____	O-PO4 _____	Sett Sol _____	Turbidity _____	
72HR	Vapors _____				

Notified _____ Date & Time _____

Container(s) received and their preservative(s):

-17-4 = 1 4oz Glass Jar
6 Encore

Comments Encore Transferred to Freezer upon
Receipt at LAB.

Initials, Date, Time UA 10/15/29 1224 r:\sr_forms\cooler.doc Rev. 2/25/02

November 3, 2004

Therese Watson
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer Property

Dear Therese:

Enclosed are the results of the samples submitted to our laboratory on October 21, 2004. For your reference, these analyses have been assigned our service request number L0402178.

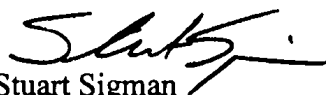
All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 27 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.



Stuart Sigman
Project Chemist

SS/EAB

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl-tert-Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request No.: L0402178
Date Received: 10/21/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Soil samples were received for analysis at Columbia Analytical Services on 10/21/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C or frozen at -20°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

The upper control criterion was exceeded for the following surrogates in sample EX3-1: Toluene-d8 and 4-Bromofluorobenzene. No target analytes were detected in the sample. The elevated recovery is due to sample matrix. The quality of the sample data is not significantly affected. No further corrective action was appropriate.

Gasoline Range Organics by EPA Method 8015M

Sample EX3-1 was analyzed as medium level soil due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

The control criterion was exceeded for the Bromofluorobenzene surrogate in samples EX3-1 and EX3-4 due to matrix interferences. Due to the presence of background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Total Metals

Batch QC was run along with these samples. These results are provided for information purposes only. The Method Blank and Laboratory Control Sample were within control criteria. No anomalies were encountered during this analysis.

Approved by _____

SS 3

Date

11/3/04

Client: PW Environmental
Project: Bauer Property

Service Request: L0402178

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
EX3-1	L0402178-001	10/21/2004	10/21/2004
EX3-2	L0402178-002	10/21/2004	10/21/2004
EX3-3	L0402178-003	10/21/2004	10/21/2004
EX3-4	L0402178-004	10/21/2004	10/21/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 11/3/04

Title: Project Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Property
 Sample Matrix: Soil

Service Request: L0402178
 Date Collected: 10/21/2004
 Date Received: 10/21/2004

Volatile Organic Compounds

Sample Name: EX3-1
 Lab Code: L0402178-001
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.4	1.4	1	10/28/04	10/28/04	LWG0403938	
Toluene	ND	U	4.4	1.5	1	10/28/04	10/28/04	LWG0403938	
Ethylbenzene	6.7		4.4	1.7	1	10/28/04	10/28/04	LWG0403938	
Total Xylenes	ND	U	13	4.8	1	10/28/04	10/28/04	LWG0403938	
Methyl tert-Butyl Ether	ND	U	8.8	3.1	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Alcohol	ND	U	44	30	1	10/28/04	10/28/04	LWG0403938	
Diisopropyl Ether	ND	U	8.8	2.8	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Ethyl Ether	ND	U	8.8	3.2	1	10/28/04	10/28/04	LWG0403938	
tert-Amyl Methyl Ether	ND	U	8.8	3.2	1	10/28/04	10/28/04	LWG0403938	
1,2-Dibromoethane (EDB)	ND	U	4.4	1.3	1	10/28/04	10/28/04	LWG0403938	
1,2-Dichloroethane (EDC)	ND	U	4.4	1.7	1	10/28/04	10/28/04	LWG0403938	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	62-136	10/28/04	Acceptable
Toluene-d8	142	67-131	10/28/04	Outside Control Limits
4-Bromofluorobenzene	166	64-130	10/28/04	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Property
 Sample Matrix: Soil

Service Request: L0402178
 Date Collected: 10/21/2004
 Date Received: 10/21/2004

Volatile Organic Compounds

Sample Name: EX3-2
 Lab Code: L0402178-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.4	1.4	1	10/28/04	10/28/04	LWG0403938	
Toluene	ND	U	4.4	1.5	1	10/28/04	10/28/04	LWG0403938	
Ethylbenzene	ND	U	4.4	1.7	1	10/28/04	10/28/04	LWG0403938	
Total Xylenes	ND	U	13	4.8	1	10/28/04	10/28/04	LWG0403938	
Methyl tert-Butyl Ether	ND	U	8.8	3.1	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Alcohol	ND	U	44	30	1	10/28/04	10/28/04	LWG0403938	
Diisopropyl Ether	ND	U	8.8	2.8	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Ethyl Ether	ND	U	8.8	3.2	1	10/28/04	10/28/04	LWG0403938	
tert-Amyl Methyl Ether	ND	U	8.8	3.2	1	10/28/04	10/28/04	LWG0403938	
1,2-Dibromoethane (EDB)	ND	U	4.4	1.3	1	10/28/04	10/28/04	LWG0403938	
1,2-Dichloroethane (EDC)	ND	U	4.4	1.7	1	10/28/04	10/28/04	LWG0403938	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	62-136	10/28/04	Acceptable
Toluene-d8	103	67-131	10/28/04	Acceptable
4-Bromofluorobenzene	119	64-130	10/28/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Property
 Sample Matrix: Soil

Service Request: L0402178
 Date Collected: 10/21/2004
 Date Received: 10/21/2004

Volatile Organic Compounds

Sample Name: EX3-3
 Lab Code: L0402178-003
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.2	1.4	1	10/28/04	10/28/04	LWG0403938	
Toluene	ND	U	4.2	1.5	1	10/28/04	10/28/04	LWG0403938	
Ethylbenzene	ND	U	4.2	1.7	1	10/28/04	10/28/04	LWG0403938	
Total Xylenes	ND	U	13	4.8	1	10/28/04	10/28/04	LWG0403938	
Methyl tert-Butyl Ether	ND	U	8.4	3.1	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Alcohol	ND	U	42	30	1	10/28/04	10/28/04	LWG0403938	
Diisopropyl Ether	ND	U	8.4	2.8	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Ethyl Ether	ND	U	8.4	3.2	1	10/28/04	10/28/04	LWG0403938	
tert-Amyl Methyl Ether	ND	U	8.4	3.2	1	10/28/04	10/28/04	LWG0403938	
1,2-Dibromoethane (EDB)	ND	U	4.2	1.3	1	10/28/04	10/28/04	LWG0403938	
1,2-Dichloroethane (EDC)	ND	U	4.2	1.7	1	10/28/04	10/28/04	LWG0403938	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	62-136	10/28/04	Acceptable
Toluene-d8	102	67-131	10/28/04	Acceptable
4-Bromofluorobenzene	115	64-130	10/28/04	Acceptable

Comments:

7

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: 10/21/2004
Date Received: 10/21/2004

Volatile Organic Compounds

Sample Name: EX3-4
Lab Code: L0402178-004
Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.3	1.4	1	10/28/04	10/28/04	LWG0403938	
Toluene	ND	U	4.3	1.5	1	10/28/04	10/28/04	LWG0403938	
Ethylbenzene	ND	U	4.3	1.7	1	10/28/04	10/28/04	LWG0403938	
Total Xylenes	ND	U	13	4.8	1	10/28/04	10/28/04	LWG0403938	
Methyl tert-Butyl Ether	ND	U	8.5	3.1	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Alcohol	ND	U	43	30	1	10/28/04	10/28/04	LWG0403938	
Diisopropyl Ether	ND	U	8.5	2.8	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Ethyl Ether	ND	U	8.5	3.2	1	10/28/04	10/28/04	LWG0403938	
tert-Amyl Methyl Ether	ND	U	8.5	3.2	1	10/28/04	10/28/04	LWG0403938	
1,2-Dibromoethane (EDB)	ND	U	4.3	1.3	1	10/28/04	10/28/04	LWG0403938	
1,2-Dichloroethane (EDC)	ND	U	4.3	1.7	1	10/28/04	10/28/04	LWG0403938	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	62-136	10/28/04	Acceptable
Toluene-d8	103	67-131	10/28/04	Acceptable
4-Bromofluorobenzene	119	64-130	10/28/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Property
 Sample Matrix: Soil

Service Request: L0402178
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0403938-3

Units: ug/Kg
 Basis: Wet
 Level: Low

Extraction Method: EPA 5035
 Analysis Method: 8260B

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.4	1	10/28/04	10/28/04	LWG0403938	
Toluene	ND	U	5.0	1.5	1	10/28/04	10/28/04	LWG0403938	
Ethylbenzene	ND	U	5.0	1.7	1	10/28/04	10/28/04	LWG0403938	
Total Xylenes	ND	U	15	4.8	1	10/28/04	10/28/04	LWG0403938	
Methyl tert-Butyl Ether	ND	U	10	3.1	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Alcohol	ND	U	50	30	1	10/28/04	10/28/04	LWG0403938	
Diisopropyl Ether	ND	U	10	2.8	1	10/28/04	10/28/04	LWG0403938	
tert-Butyl Ethyl Ether	ND	U	10	3.2	1	10/28/04	10/28/04	LWG0403938	
tert-Amyl Methyl Ether	ND	U	10	3.2	1	10/28/04	10/28/04	LWG0403938	
1,2-Dibromoethane (EDB)	ND	U	5.0	1.3	1	10/28/04	10/28/04	LWG0403938	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.7	1	10/28/04	10/28/04	LWG0403938	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	73	62-136	10/28/04	Acceptable
Toluene-d8	99	67-131	10/28/04	Acceptable
4-Bromofluorobenzene	113	64-130	10/28/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
EX3-1	L0402178-001	100	142 *	166 *
EX3-2	L0402178-002	99	103	119
EX3-3	L0402178-003	98	102	115
EX3-4	L0402178-004	96	103	119
Method Blank	LWG0403938-3	73	99	113
Lab Control Sample	LWG0403938-1	97	102	112
Duplicate Lab Control Sample	LWG0403938-2	85	99	111

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	62-136
Sur2 = Toluene-d8	67-131
Sur3 = 4-Bromofluorobenzene	64-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
 Project: Bauer Property
 Sample Matrix: Soil

Service Request: L0402178
 Date Extracted: 10/28/2004
 Date Analyzed: 10/28/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds

Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0403938

Analyte Name	Lab Control Sample LWG0403938-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403938-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	16.5	20.0	83	15.9	20.0	80	64-125	4	30
Toluene	17.2	20.0	86	16.9	20.0	85	69-119	2	30
Ethylbenzene	19.9	20.0	100	19.6	20.0	98	68-120	2	30
Total Xylenes	61.2	60.0	102	60.5	60.0	101	65-121	1	30
Methyl tert-Butyl Ether	38.6	40.0	96	37.3	40.0	93	64-131	4	30
tert-Butyl Alcohol	416	400	104	397	400	99	60-128	5	30
Diisopropyl Ether	35.9	40.0	90	35.5	40.0	89	70-124	1	30
tert-Butyl Ethyl Ether	38.5	40.0	96	38.1	40.0	95	70-126	1	30
tert-Amyl Methyl Ether	38.0	40.0	95	37.8	40.0	94	74-122	1	30
1,2-Dibromoethane (EDB)	17.9	20.0	90	17.0	20.0	85	74-118	5	30
1,2-Dichloroethane (EDC)	16.3	20.0	81	15.5	20.0	78	65-128	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer Property

Service Request: L0402178

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
EX3-1	L0402178-001	10/21/2004	10/21/2004
EX3-2	L0402178-002	10/21/2004	10/21/2004
EX3-3	L0402178-003	10/21/2004	10/21/2004
EX3-4	L0402178-004	10/21/2004	10/21/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____

Name: _____

Date: _____

Title: _____

12

Cover Page - Organic

Analytical Results

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: 10/21/2004
Date Received: 10/21/2004

Gasoline Range Organics (GRO)

Sample Name: EX3-1
Lab Code: L0402178-001
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	260	D	9.1	4.6	2	10/28/04	10/28/04	LWG0403935	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	495	62-133	10/28/04	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: 10/21/2004
Date Received: 10/21/2004

Gasoline Range Organics (GRO)

Sample Name: EX3-2
Lab Code: L0402178-002
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.090	0.045	1	10/28/04	10/28/04	LWG0403934	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	90	58-119	10/28/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: 10/21/2004
Date Received: 10/21/2004

Gasoline Range Organics (GRO)

Sample Name: EX3-3
Lab Code: L0402178-003
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.087	0.045	1	10/28/04	10/28/04	LWG0403934	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	83	58-119	10/28/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: 10/21/2004
Date Received: 10/21/2004

Gasoline Range Organics (GRO)

Sample Name: EX3-4
Lab Code: L0402178-004
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	1.5		0.088	0.045	1	10/28/04	10/28/04	LWG0403934	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	489	58-119	10/28/04	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403934-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	10/28/04	10/28/04	LWG0403934	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	93	58-119	10/28/04	Acceptable

Comments: _____

Analytical Results

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0403935-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	5.0	2.3	1	10/28/04	10/28/04	LWG0403935	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	92	62-133	10/28/04	Acceptable

Comments: _____

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
EX3-2	L0402178-002	90
EX3-3	L0402178-003	83
EX3-4	L0402178-004	489 *
Method Blank	LWG0403934-3	93
Lab Control Sample	LWG0403934-1	99
Duplicate Lab Control Sample	LWG0403934-2	100

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178

**Surrogate Recovery Summary
Gasoline Range Organics (GRO)**

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
EX3-1	L0402178-001	495 D *
Method Blank	LWG0403935-3	92
Lab Control Sample	LWG0403935-1	100
Duplicate Lab Control Sample	LWG0403935-2	105

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 62-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Extracted: 10/28/2004
Date Analyzed: 10/28/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0403934

Analyte Name	Lab Control Sample LWG0403934-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403934-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.959	1.00	96	0.972	1.00	97	76-117	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Extracted: 10/28/2004
Date Analyzed: 10/28/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med
Extraction Lot: LWG0403935

Analyte Name	Lab Control Sample LWG0403935-1 Lab Control Spike			Duplicate Lab Control Sample LWG0403935-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	44.5	51.0	87	46.6	51.0	91	74-111	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: 10/21/04
Date Received: 10/21/04

Lead, Total

Prep Method: EPA 3050B
Analysis Method: 6020
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Result Notes
EX3-1	L0402178-001	0.4	0.04	1	10/22/04	10/28/04	13	
EX3-2	L0402178-002	0.4	0.04	1	10/22/04	10/28/04	8.6	
EX3-3	L0402178-003	0.4	0.04	1	10/22/04	10/28/04	7.0	
EX3-4	L0402178-004	0.4	0.04	1	10/22/04	10/28/04	10	
Method Blank	L041022-MB1	0.4	0.04	1	10/22/04	10/28/04	0.1	J

J Estimated concentration. The result is less than the PQL but greater than the MDL.

Approved By: SS Date: 11/3/04

1A/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Property
Sample Matrix: Soil

Service Request: L0402178
Date Collected: NA
Date Received: NA
Date Digested: 10/22/04
Date Analyzed: 10/28/04

Matrix Spike/Duplicate Matrix Spike Summary
 Lead, Total

Sample Name: Batch QC
Lab Code: X0401011-001MS X0401011-001DMS
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Analyte	Prep Method	Analysis Method	PQL	Spike Level		Sample Result	Spike Result		Percent Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Lead, Total	EPA 3050B	6020	0.4	1000	1000	1522	2640	2620	112	110	41-124	<1	

Approved By: SS **Date:** 11/3/04

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Property
LCS Matrix: Soil

Service Request: L0402178
Date Collected: NA
Date Received: NA
Date Digested: 10/22/04
Date Analyzed: 10/28/04

Laboratory Control Sample Summary
Lead, Total

Sample Name: Lab Control Sample
Lab Code: L041022-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery	Result Notes
						Acceptance Limits	
Lead, Total	EPA 3050B	6020	1000	1068	107	81-105	

Approved By: SS **Date:** 11/3/04

LCS/020597p



ENVIRONMENTAL 10402178
230 DOVE COURT • SANTA PAULA • CALIFORNIA • 93060
(805) 656-4677 • (805) 525-5563 • FAX (805) 525-2896

CHAIN OF CUSTODY RECORD

Lab: ANALYSIS REQUESTED

PROJECT NAME: Bauer Property
PROJECT ADDRESS: 1140 S. Wells Road
PROJECT MANAGER: T. Watson
SAMPLER SIGNATURE: Cheryl Watson P.O. # 1286-LAB-8833

SAMPLE ID	SAMPLE LOCATION	DEPTH	DATE	TIME	SAMPLE MATRIX
EX3-1	EXCV #3 West Wall	5'	10/21/04	9:40	Soil
EX3-2	EXCV #3 West Wall	8'	10/21/04	9:50	Soil
EX3-3	EXCV #3 Bottom	8.5'	10/21/04	10:00	Soil
EX3-4	EXCV #3 North Wall	5.5'	10/21/04	10:10	Soil

NUMBER OF CONTAINERS									
TPH-G 8015M	X								
TPH-D 8015M	X								
TPH-D Low Level 8015M	X								
TPH-Q 8015M	X								
TPH-Char, 8015M FC	X								
BTEX, OXYG, EDB, EDC 8260B	X								
FULL VOCs w/Oxygenates 8260B	X								
Lead Total / Dissolved 6010/6020/7421	X								
STLC									
TCLP									
Metals: CAM 17 PP13									
Ethanol/Methanol 8015B									
Ethanol 8260B									
TPH-G/BTEX/OXYG/EOH 8260B									
TPH-G/BTEX/MTBE (Carb 410-103)									
Lab Filter									
TAT: RUSH 24-HR 48 HR 72HR STD									

PID Reading,
Odor, Staining,
Other TAT, etc.

RELINQUISHED BY: Cheryl Watson RECEIVED BY: Cheryl Watson
RELINQUISHED BY: Cheryl Watson RECEIVED BY: Cheryl Watson

DATE	10/21/04	TIME	10:15
DATE	10/21/04	TIME	13:45

Method of shipment, additional comments: ☒ USTCF ☒ EDF-COELT ☐ NONE

Required MARKS to: ☒ VCLUFT ☐ PSD-LUFT

Central Coast RWOCB San Bernardino County FD Los Angeles RWOCB Lahontan RWOCB KCEHD Kern County OCHCA Orange County

☐ Fax preliminary data ASAP

SAMPLE RECEIPT FORM

Service Request No: L040 2178 Client: PW ENN

Sample(s) delivered by: Client CAS Emp ☒ After Hours DHL

Golden State Overnight Fed X UPS Other Courier

Chain of Custody filled out accurately? Yes ☒ No (See Comments)

Appropriate sample volume and containers? Yes ☒ No (See Comments)

Sufficient labeling on container(s) ? Yes ☒ No (See Comments)

Container(s) supplied by CAS? Yes ☒ No (See Comments)

Custody seal(s) intact? N/A ☒ Yes No (See Comments)

Trip Blank(s) received Yes No ☒

If Trip Blank was supplied by CAS, record serial # -TB-

Temperature of sample(s)/cooler 4 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes No Filled Properly? Yes No (See Comments)

Preserved Bottles Requiring pH check(s)? Yes Appropriate Preservation? Yes No

RUSH Turn around time? Yes Notified Date & Time

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl <u> </u>	D.O <u> </u>	Flash <u> </u>	Diss S2- <u> </u>	Ferrous Fe <u> </u>
24HR	pH <u> </u>	Odor <u> </u>	Cr+6 <u> </u>		
48HR	BOD <u> </u>	Color <u> </u>	MBAS <u> </u>	Nitrate <u> </u>	
	Nitrite <u> </u>	O-PO4 <u> </u>	Sett Sol <u> </u>	Turbidity <u> </u>	
72HR	Vapors <u> </u>				

Notified Date & Time

Container(s) received and their preservative(s):

-1 → -4 = 1-402 Jar
6 - ENVORES

Comments ENVORES TRANSFERRED TO FREEZER UPON
RECEIPT IN LAB

Initials, Date, Time LK w/2164 ²⁷₁₅₀₀ r:\sr_forms\cooler.doc Rev. 2/25/02

December 5, 2004

Robert Orlando
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer Manufacturing-REM EX

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on November 17, 2004. For your reference, these analyses have been assigned our service request number L0402369.

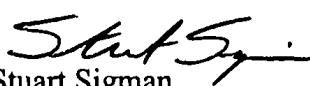
All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 25 pages.

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.


Stuart Sigman
Project Chemist

SS/EAB

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl-tert-Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request No.: L0402369
Date Received: 11/17/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Soil samples were received for analysis at Columbia Analytical Services on 11/17/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored frozen at -20°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

The control criterion was exceeded for the 4-Bromofluorobenzene surrogates in sample EX4-3 due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Gasoline Range Organics by EPA Method 8015M

Sample EX4-3 was analyzed as medium level soil due to the presence of elevated levels of target analyte. Further dilution was necessary due to high level of Hydrocarbons. The reporting limits are adjusted to reflect the dilution.

The control criterion for the Bromofluorobenzene surrogates in sample EX4-3 is not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

The Bromofluorobenzene surrogate recovery was exceeded also in sample EX4-1 due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. No further corrective action was appropriate.

Total Metals

Batch QC was run along with these samples. These results are provided for information purposes only. The Method Blank and Laboratory Control Sample were within control criteria. No anomalies were encountered during this analysis.

Approved by _____

SS 3

Date

12/5/04

Client: PW Environmental
Project: Bauer Manufacturing-REM EX

Service Request: L0402369

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
EX4-1	L0402369-001	11/17/2004	11/17/2004
EX4-2	L0402369-002	11/17/2004	11/17/2004
EX4-3	L0402369-003	11/17/2004	11/17/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 11/24/04

Title: Project Chemist

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: 11/17/2004
Date Received: 11/17/2004

Volatile Organic Compounds

Sample Name: EX4-1
Lab Code: L0402369-001
Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.2	1.5	1	11/23/04	11/23/04	LWG0404299	
Toluene	ND	U	5.2	1.6	1	11/23/04	11/23/04	LWG0404299	
Ethylbenzene	ND	U	5.2	1.8	1	11/23/04	11/23/04	LWG0404299	
Total Xylenes	ND	U	16	5.0	1	11/23/04	11/23/04	LWG0404299	
Methyl tert-Butyl Ether	ND	U	11	3.2	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Alcohol	ND	U	52	31	1	11/23/04	11/23/04	LWG0404299	
Diisopropyl Ether	ND	U	11	2.9	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Ethyl Ether	ND	U	11	3.3	1	11/23/04	11/23/04	LWG0404299	
tert-Amyl Methyl Ether	ND	U	11	3.3	1	11/23/04	11/23/04	LWG0404299	
1,2-Dibromoethane (EDB)	ND	U	5.2	1.4	1	11/23/04	11/23/04	LWG0404299	
1,2-Dichloroethane (EDC)	ND	U	5.2	1.8	1	11/23/04	11/23/04	LWG0404299	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	88	62-136	11/23/04	Acceptable
Toluene-d8	90	67-131	11/23/04	Acceptable
4-Bromofluorobenzene	109	64-130	11/23/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing-REM EX
 Sample Matrix: Soil

Service Request: L0402369
 Date Collected: 11/17/2004
 Date Received: 11/17/2004

Volatile Organic Compounds

Sample Name: EX4-2
 Lab Code: L0402369-002
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.9	1.4	1	11/23/04	11/23/04	LWG0404299	
Toluene	ND	U	4.9	1.5	1	11/23/04	11/23/04	LWG0404299	
Ethylbenzene	ND	U	4.9	1.7	1	11/23/04	11/23/04	LWG0404299	
Total Xylenes	ND	U	15	4.8	1	11/23/04	11/23/04	LWG0404299	
Methyl tert-Butyl Ether	ND	U	9.7	3.1	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Alcohol	ND	U	49	30	1	11/23/04	11/23/04	LWG0404299	
Diisopropyl Ether	ND	U	9.7	2.8	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Ethyl Ether	ND	U	9.7	3.2	1	11/23/04	11/23/04	LWG0404299	
tert-Amyl Methyl Ether	ND	U	9.7	3.2	1	11/23/04	11/23/04	LWG0404299	
1,2-Dibromoethane (EDB)	ND	U	4.9	1.3	1	11/23/04	11/23/04	LWG0404299	
1,2-Dichloroethane (EDC)	ND	U	4.9	1.7	1	11/23/04	11/23/04	LWG0404299	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	62-136	11/23/04	Acceptable
Toluene-d8	93	67-131	11/23/04	Acceptable
4-Bromofluorobenzene	111	64-130	11/23/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing-REM EX
 Sample Matrix: Soil

Service Request: L0402369
 Date Collected: 11/17/2004
 Date Received: 11/17/2004

Volatile Organic Compounds

Sample Name: EX4-3
 Lab Code: L0402369-003
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	4.4	1.4	1	11/23/04	11/23/04	LWG0404299	
Toluene	ND	U	4.4	1.5	1	11/23/04	11/23/04	LWG0404299	
Ethylbenzene	ND	U	4.4	1.7	1	11/23/04	11/23/04	LWG0404299	
Total Xylenes	ND	U	13	4.8	1	11/23/04	11/23/04	LWG0404299	
Methyl tert-Butyl Ether	ND	U	8.8	3.1	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Alcohol	ND	U	44	30	1	11/23/04	11/23/04	LWG0404299	
Diisopropyl Ether	ND	U	8.8	2.8	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Ethyl Ether	ND	U	8.8	3.2	1	11/23/04	11/23/04	LWG0404299	
tert-Amyl Methyl Ether	ND	U	8.8	3.2	1	11/23/04	11/23/04	LWG0404299	
1,2-Dibromoethane (EDB)	ND	U	4.4	1.3	1	11/23/04	11/23/04	LWG0404299	
1,2-Dichloroethane (EDC)	ND	U	4.4	1.7	1	11/23/04	11/23/04	LWG0404299	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	62-136	11/23/04	Acceptable
Toluene-d8	115	67-131	11/23/04	Acceptable
4-Bromofluorobenzene	191	64-130	11/23/04	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
 Project: Bauer Manufacturing-REM EX
 Sample Matrix: Soil

Service Request: L0402369
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: LWG0404299-3
 Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Benzene	ND	U	5.0	1.4	1	11/23/04	11/23/04	LWG0404299	
Toluene	ND	U	5.0	1.5	1	11/23/04	11/23/04	LWG0404299	
Ethylbenzene	ND	U	5.0	1.7	1	11/23/04	11/23/04	LWG0404299	
Total Xylenes	ND	U	15	4.8	1	11/23/04	11/23/04	LWG0404299	
Methyl tert-Butyl Ether	ND	U	10	3.1	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Alcohol	ND	U	50	30	1	11/23/04	11/23/04	LWG0404299	
Diisopropyl Ether	ND	U	10	2.8	1	11/23/04	11/23/04	LWG0404299	
tert-Butyl Ethyl Ether	ND	U	10	3.2	1	11/23/04	11/23/04	LWG0404299	
tert-Amyl Methyl Ether	ND	U	10	3.2	1	11/23/04	11/23/04	LWG0404299	
1,2-Dibromoethane (EDB)	ND	U	5.0	1.3	1	11/23/04	11/23/04	LWG0404299	
1,2-Dichloroethane (EDC)	ND	U	5.0	1.7	1	11/23/04	11/23/04	LWG0404299	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	62-136	11/23/04	Acceptable
Toluene-d8	95	67-131	11/23/04	Acceptable
4-Bromofluorobenzene	111	64-130	11/23/04	Acceptable

Comments: _____

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
EX4-1	L0402369-001	88	90	109
EX4-2	L0402369-002	90	93	111
EX4-3	L0402369-003	93	115	191 *
Method Blank	LWG0404299-3	93	95	111
Lab Control Sample	LWG0404299-1	98	97	112
Duplicate Lab Control Sample	LWG0404299-2	96	95	112

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	62-136
Sur2 = Toluene-d8	67-131
Sur3 = 4-Bromofluorobenzene	64-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
 Project: Bauer Manufacturing-REM EX
 Sample Matrix: Soil

Service Request: L0402369
 Date Extracted: 11/23/2004
 Date Analyzed: 11/23/2004

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5035
 Analysis Method: 8260B

Units: ug/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: LWG0404299

Analyte Name	Lab Control Sample LWG0404299-1 Lab Control Spike			Duplicate Lab Control Sample LWG0404299-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Benzene	17.2	20.0	86	18.2	20.0	91	64-125	6	30
Toluene	16.9	20.0	84	18.0	20.0	90	69-119	6	30
Ethylbenzene	19.2	20.0	96	20.8	20.0	104	68-120	8	30
Total Xylenes	59.7	60.0	99	64.8	60.0	108	65-121	8	30
Methyl tert-Butyl Ether	38.8	40.0	97	40.5	40.0	101	64-131	4	30
tert-Butyl Alcohol	419	400	105	457	400	114	60-128	9	30
Diisopropyl Ether	39.0	40.0	97	41.7	40.0	104	70-124	7	30
tert-Butyl Ethyl Ether	40.3	40.0	101	42.2	40.0	106	70-126	5	30
tert-Amyl Methyl Ether	38.2	40.0	95	40.8	40.0	102	74-122	7	30
1,2-Dibromoethane (EDB)	16.5	20.0	83	17.2	20.0	86	74-118	4	30
1,2-Dichloroethane (EDC)	17.3	20.0	87	18.0	20.0	90	65-128	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: PW Environmental
Project: Bauer Manufacturing-REM EX

Service Request: L0402369

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
EX4-1	L0402369-001	11/17/2004	11/17/2004
EX4-2	L0402369-002	11/17/2004	11/17/2004
EX4-3	L0402369-003	11/17/2004	11/17/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 11/24/04

Title: Project Chemist

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: 11/17/2004
Date Received: 11/17/2004

Gasoline Range Organics (GRO)

Sample Name: EX4-1
Lab Code: L0402369-001
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	2.0		0.091	0.045	1	11/20/04	11/20/04	LWG0404265	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	377	58-119	11/20/04	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: 11/17/2004
Date Received: 11/17/2004

Gasoline Range Organics (GRO)

Sample Name: EX4-2
Lab Code: L0402369-002
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.090	0.045	1	11/20/04	11/20/04	LWG0404265	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	76	58-119	11/20/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: 11/17/2004
Date Received: 11/17/2004

Gasoline Range Organics (GRO)

Sample Name: EX4-3
Lab Code: L0402369-003
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	1200	D	50	23	10	11/20/04	11/20/04	LWG0404272	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	0	62-133	11/20/04	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0404265-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	11/20/04	11/20/04	LWG0404265	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	91	58-119	11/20/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0404272-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	5.0	2.3	1	11/20/04	11/20/04	LWG0404272	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	96	62-133	11/20/04	Acceptable

Comments:

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369

Surrogate Recovery Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
EX4-1	L0402369-001	377 *
EX4-2	L0402369-002	76
Method Blank	LWG0404265-3	91
Lab Control Sample	LWG0404265-1	98
Duplicate Lab Control Sample	LWG0404265-2	99

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369

Surrogate Recovery Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Med

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
EX4-3	L0402369-003	0 D #
Method Blank	LWG0404272-3	96
Lab Control Sample	LWG0404272-1	118
Duplicate Lab Control Sample	LWG0404272-2	115

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 62-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Extracted: 11/20/2004
Date Analyzed: 11/20/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0404265

Analyte Name	Lab Control Sample LWG0404265-1 Lab Control Spike			Duplicate Lab Control Sample LWG0404265-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.919	1.00	92	0.925	1.00	92	76-117	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Extracted: 11/20/2004
Date Analyzed: 11/20/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Med
Extraction Lot: LWG0404272

Analyte Name	Lab Control Sample LWG0404272-1 Lab Control Spike			Duplicate Lab Control Sample LWG0404272-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	81.8	102	80	85.8	102	84	74-111	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: 11/17/04
Date Received: 11/17/04

Lead, Total

Prep Method: EPA 3050B
Analysis Method: 6020
Test Notes:

Units: mg/Kg (ppm)
Basis: Wet

Sample Name	Lab Code	PQL	MDL	Dilution Factor	Date Digested	Date Analyzed	Result	Result Notes
EX4-1	L0402369-001	0.4	0.04	1	11/29/04	11/30/04	12	
EX4-2	L0402369-002	0.4	0.04	1	11/29/04	11/30/04	6.4	
EX4-3	L0402369-003	0.4	0.04	1	11/29/04	11/30/04	13	
Method Blank	L041129-MB2	0.4	0.04	1	11/29/04	11/30/04	ND	

Approved By: SS Date: 12/5/04

LA/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
Sample Matrix: Soil

Service Request: L0402369
Date Collected: NA
Date Received: NA
Date Digested: 11/29/04
Date Analyzed: 11/30/04

Matrix Spike/Duplicate Matrix Spike Summary
Lead, Total

Sample Name: Batch QC Units: mg/Kg (ppm)
Lab Code: L0402405-001MS L0402405-001DMS Basis: Wet
Test Notes:

Analyte	Prep Method	Analysis Method	PQL	Spike Level		Sample Result	Spike Result		Percent Recovery				Relative Percent Difference	Result Notes
									CAS Acceptance Limits					
				MS	DMS		MS	DMS	MS	DMS				
Lead, Total	EPA 3050B	6020	0.4	100	100	44.4	156	188	112	144	41-124	19	M1A	

M1A MS/DMS outside of acceptance limits. The LCS was acceptable; therefore, data was approved.

Approved By: SS Date: 12/5/04

DMS/020597p

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer Manufacturing-REM EX
LCS Matrix: Soil

Service Request: L0402369
Date Collected: NA
Date Received: NA
Date Digested: 11/29/04
Date Analyzed: 11/30/04

Laboratory Control Sample Summary
Lead, Total

Sample Name: Lab Control Sample
Lab Code: L041129-LCS
Test Notes:

Units: mg/Kg (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Lead, Total	EPA 3050B	6020	100	95.5	96	81-105	

Approved By: _____ **SS** **Date:** 12/5/04

LCS/020597p

CHAIN OF CUSTODY RECORD

230 DOVE COURT ■ SANTA PAULA ■ CALIFORNIA ■ 93060
(805) 656-4677 ■ (805) 525-5563 ■ FAX (805) 525-2896

PROJECT NAME: Bauer Manufacturing - Ram Ex		SAMPLE ID		SAMPLE LOCATION		DEPTH	DATE	TIME	SAMPLE MATRIX
PROJECT ADDRESS: 1140 South Wells									
Saticoy, CA									
PROJECT MANAGER: Robert Orlando									
SAMPLER SIGNATURE: <i>Robert Orlando</i>									
P.O. # 1286-44B									
-9040									

[illegible]

RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	Required MRPL to: S.B. PSD VCLUFT
RELINQUISHED BY: (signature)	RECEIVED BY: (signature)	
Method of shipment, additional comments: <input checked="" type="checkbox"/> USTCF <input checked="" type="checkbox"/> EDF-COELIT <input type="checkbox"/> NONE		
<input checked="" type="checkbox"/> Fax preliminary data ASAP		

Lab: CAS	ANALYSIS REQUESTED			
Pes: Ice (Dry) HCl None	X	X	X	X
TPH-G 8015M	X	X	X	X
TPH-D 8015M				
TPH-D Low Level 8015M				
TPH-O 8015M				
TPH-Char, 8015M FC				
BTEX, OXYG, EDB, EDC 8260B	X	X	X	X
FULL VOCs w/Oxygenates 8260B	X	X	X	X
Lead (Total) Dissolved 6010/6020/7421				
STLC				
TCLP				
Metals: CAM 17 PP13				
Ethanol/Methanol 8015B				
Ethanol 8260B				
TPH-G/BTEX/OXYG/EOH 8260B				
TPH-G/BTEX/MTBE (Carb 410-T03)				
Lab Filter				
TAT: RUSH 24-HR 48 HR 72HR 5TD	X	X	X	X
PID Reading, Odor, Staining, Other TAT, etc.				

Los Angeles RWOCB	Lahontan RWOCB	Central Coast RWOCB	San Bernardino County FD	KCEHD Kern County	OCHCA Orange County
DATE	DATE	DATE	DATE	TIME	TIME
11/17/04	11/17/04	11/17/04	11/17/04	1055	1200

☒ Fax preliminary data ASAP

SAMPLE RECEIPT FORM

Service Request No: L0402369 Client: PWE

Sample(s) delivered by: Client ☐ CAS Emp ☒ After Hours ☐ DHL ☐

Golden State Overnight ☐ Fed X ☐ UPS ☐ Other Courier ☐

Chain of Custody filled out accurately? Yes ☒ No ☐ (See Comments)

Appropriate sample volume and containers? Yes ☒ No ☐ (See Comments)

Sufficient labeling on container(s)? Yes ☒ No ☐ (See Comments)

Container(s) supplied by CAS? Yes ☒ No ☐ (See Comments)

Custody seal(s) intact? N/A ☒ Yes ☐ No ☐ (See Comments)

Trip Blank(s) received Yes ☐ No ☒

If Trip Blank was supplied by CAS, record serial # _____ -TB- _____

Temperature of sample(s)/cooler 2 °C Temp Blank? Y or N (Circle One)

Voa's Marked Preserved? Yes ☐ No ☐ Filled Properly? Yes ☐ No ☐ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes ☐ Appropriate Preservation? Yes ☐ No ☐

RUSH Turn around time? Yes ☐ Notified _____ Date & Time _____

Short Hold-Time Analysis (check all that apply)

ASAP	Res Cl <input type="checkbox"/>	D.O <input type="checkbox"/>	Flash <input type="checkbox"/>	Diss S2- <input type="checkbox"/>	Ferrous Fe <input type="checkbox"/>
24HR	pH <input type="checkbox"/>	Odor <input type="checkbox"/>	Cr+6 <input type="checkbox"/>		
48HR	BOD <input type="checkbox"/>	Color <input type="checkbox"/>	MBAS <input type="checkbox"/>	Nitrate <input type="checkbox"/>	
	Nitrite <input type="checkbox"/>	O-PO4 <input type="checkbox"/>	Sett Sol <input type="checkbox"/>	Turbidity <input type="checkbox"/>	
72HR	Vapors <input type="checkbox"/>				

Notified _____ Date & Time _____

Container(s) received and their preservative(s):

1402 JAN ml
1-3-6 Encos

Comments Det Dee was notified about Encos
on 11/17/04 at 1500. Encos transferred to Freezer
upon receipt at LAB. ss 11/17/04

25

1402 JAN 1505

December 16, 2004

Robert Orlando
PW Environmental
230 Dove Court
Santa Paula, CA 93060

RE: Bauer & Collins Property

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on December 6, 2004. For your reference, these analyses have been assigned our service request number L0402469.

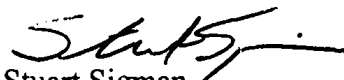
All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed. Columbia Analytical Services is not responsible for use of less than the complete report. Your report contains 17 pages

Columbia Analytical Services is certified for environmental analyses by the California Department of Health Services (certificate number: 1296A); NELAP (certificate number: 02115CA); Los Angeles County Laboratory ID (No. 10151); and Arizona Department of Health Services (License number: AZ0136 and AZ0544).

If you have any questions, please call me at (818) 587-5550, extension 310.

Respectfully submitted,

Columbia Analytical Services, Inc.



Stuart Sigman
Project Chemist

SS/EAB

Columbia Analytical Services, Inc.

Acronyms

8015M	California DHS LUFT Method
ASTM	American Society for Testing and Materials
BOD	Biochemical Oxygen Demand
BTEX	Benzene/Toluene/Ethylbenzene/Xylenes
CAM	California Assessment Metals
CAS Number	Chemical Abstract Service Registry Number
CFC	Chlorofluorocarbon
COD	Chemical Oxygen Demand
CRDL	Contract Required Detection Limit
D	Detected; result must be greater than zero.
DL	Detected; result must be greater than the detection limit.
DLCS	Duplicate Laboratory Control Sample
DMS	Duplicate Matrix Spike
DOH or DHS	Department of Health Services
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
IC	Ion Chromatography
ICB	Initial Calibration Blank sample
ICP	Inductively Coupled Plasma atomic emission spectrometry
ICV	Initial Calibration Verification sample
LCS	Laboratory Control Sample
LUFT	Leaking Underground Fuel Tank
M	Modified
MBAS	Methylene Blue Active Substances
MDL	Method Detection Limit
MRL	Method Reporting Limit
MS	Matrix Spike
MTBE	Methyl- <i>tert</i> -Butyl Ether
NA	Not Applicable
NC	Not Calculated
ND	None Detected at or above the Method Reporting/Detection Limit (MRL/MDL)
NTU	Nephelometric Turbidity Units
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RPD	Relative Percent Difference
SIM	Selected Ion Monitoring
SM	<i>Standard Methods for the Examination of Water and Wastewater</i> 18th Ed., 1992.
STLC	Solubility Threshold Limit Concentration
SW	<i>Test Methods for Evaluating Solid Waste, Physical/Chemical Methods</i> SW-846, Third Edition, 1986 and as amended by Updates I, II, IIA, and IIB.
TCLP	Toxicity Characteristics Leaching Procedure
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSS	Total Suspended Solids
TTLC	Total Threshold Limit Concentration
VOA	Volatile Organic Analyte(s)

Qualifiers

U	Undetected at or above MDL/MRL (PQL).
J	Estimated concentration. Analyte detected above MDL but below MRL (PQL).
B	Hit above MRL (PQL) also found in Method Blank.
E	Analyte concentration above high point of ICAL.
D	Result from dilution.
X	See case narrative.

COLUMBIA ANALYTICAL SERVICES, INC.

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request No.: L0402469
Date Received: 12/6/04

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Soil samples were received for analysis at Columbia Analytical Services on 12/6/04. No discrepancies were noted upon initial sample inspection. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at 4°C upon receipt at the laboratory.

Gasoline Range Organics by EPA Method 8015B

No anomalies were encountered.

Approved by SS 3 Date 12/16/04

Client: PW Environmental
Project: Bauer & Collins Property

Service Request: L0402469

Cover Page - Organic Analysis Data Package
Gasoline Range Organics (GRO)

Sample Name	Lab Code	Date Collected	Date Received
EX5-1	L0402469-001	12/06/2004	12/06/2004
EX5-2	L0402469-002	12/06/2004	12/06/2004
EX5-3	L0402469-003	12/06/2004	12/06/2004
EX5-4	L0402469-004	12/06/2004	12/06/2004
EX5-5	L0402469-005	12/06/2004	12/06/2004
EX5-6	L0402469-006	12/06/2004	12/06/2004
EX5-7	L0402469-007	12/06/2004	12/06/2004
EX5-8	L0402469-008	12/06/2004	12/06/2004

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Stuart Sigman

Name: Stuart Sigman

Date: 12/7/04

Title: Project Chemist

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-1
Lab Code: L0402469-001
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	0.19		0.087	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	111	58-119	12/07/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-2
Lab Code: L0402469-002
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.090	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	61	58-119	12/07/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-3
Lab Code: L0402469-003
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.088	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	79	58-119	12/07/04	Acceptable

Comments:

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-4
Lab Code: L0402469-004
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.093	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	74	58-119	12/07/04	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-5
Lab Code: L0402469-005
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.081	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	81	58-119	12/07/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-6
Lab Code: L0402469-006
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.097	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	76	58-119	12/07/04	Acceptable

Comments:

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-7
Lab Code: L0402469-007
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	0.14		0.088	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	83	58-119	12/07/04	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: 12/06/2004
Date Received: 12/06/2004

Gasoline Range Organics (GRO)

Sample Name: EX5-8
Lab Code: L0402469-008
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.087	0.045	1	12/07/04	12/07/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	66	58-119	12/07/04	Acceptable

Comments:

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Collected: NA
Date Received: NA

Gasoline Range Organics (GRO)

Sample Name: Method Blank
Lab Code: LWG0404412-3
Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	PQL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline	ND	U	0.10	0.045	1	12/06/04	12/06/04	LWG0404412	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Bromofluorobenzene	99	58-119	12/06/04	Acceptable

Comments: _____

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469

Surrogate Recovery Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
EX5-1	L0402469-001	111
EX5-2	L0402469-002	61
EX5-3	L0402469-003	79
EX5-4	L0402469-004	74
EX5-5	L0402469-005	81
EX5-6	L0402469-006	76
EX5-7	L0402469-007	83
EX5-8	L0402469-008	66
Method Blank	LWG0404412-3	99
Lab Control Sample	LWG0404412-1	104
Duplicate Lab Control Sample	LWG0404412-2	107

Surrogate Recovery Control Limits (%)

Sur1 = Bromofluorobenzene 58-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: PW Environmental
Project: Bauer & Collins Property
Sample Matrix: Soil

Service Request: L0402469
Date Extracted: 12/06/2004
Date Analyzed: 12/06/2004

Lab Control Spike/Duplicate Lab Control Spike Summary
Gasoline Range Organics (GRO)

Extraction Method: EPA 5035
Analysis Method: 8015B

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: LWG0404412

Analyte Name	Lab Control Sample LWG0404412-1 Lab Control Spike			Duplicate Lab Control Sample LWG0404412-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Gasoline	0.912	1.00	91	0.936	1.00	94	76-117	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



CHAIN OF CUSTODY RECORD

ENVIRONMENTAL 10402469

230 DOVE COURT • SANTA PAULA • CALIFORNIA • 93060
(805) 656-4677 • (805) 525-5563 • FAX (805) 525-2896

PROJECT NAME: Bauer & Collins Property

PROJECT ADDRESS: 1140 S. Wells Rd.

PROJECT MANAGER: T. Watson

SAMPLER SIGNATURE: Chen Watson

P.O. # 1226-LAB

P.O. # 9149

SAMPLE ID	SAMPLE LOCATION	DEPTH	DATE	TIME	SAMPLE MATRIX
EX5-1	Southern Wall	7'	12/6/04	10:45	Soil
EX5-2	Southern Wall	4'	12/6/04	10:50	Soil
EX5-3	Bottom/South East	8'	12/6/04	11:03	Soil
EX5-4	East wall	6'	12/6/04	11:15	Soil
EX5-5	Bottom	8'	12/6/04	11:25	Soil
EX5-6	Southern Wall/H	7'	12/6/04	11:40	Soil
EX5-7	North Wall	7'	12/6/04	12:00	Soil
EX5-8	North Wall	3'	12/6/04	12:35	Soil

RELINQUISHED BY: Chen Watson (signature)

RECEIVED BY: Watson (signature)

RELINQUISHED BY: Watson (signature)

RECEIVED BY: Watson (signature)

Method of shipment, additional comments: 24-hr Turn-around

☒ Fax preliminary data ASAP

☐ USTCF

☒ EDF-COELT

☐ NONE

ANALYSIS REQUESTED

Lab:

TPH-G 8015M	TPH-G 8015M	TPH-D Low Level 8015M	TPH-O 8015M	TPH-Char 8015M FC	BTEX, OXYG, EDB, EDC 8260B	FULL VOCs w/Oxygenates 8260B	Lead Total / Dissolved 6010/6020/7421	STIC	TCLP	Metals: CAM 17 PP13	Ethanol/Methanol 8015B	Ethanol 8260B	TPHG/BTEX/OXYG/EOH 8260B	TPHG/BTEX/MTBE (carb 410-T03)	Lab Filter	TAT: RUSH 24-HR 48 HR 72HR STD	PID Reading, Odor, Staining, Other TAT, etc.
-------------	-------------	-----------------------	-------------	-------------------	----------------------------	------------------------------	---------------------------------------	------	------	---------------------	------------------------	---------------	--------------------------	-------------------------------	------------	--------------------------------	--

TPH-G 8015M	TPH-G 8015M	TPH-D Low Level 8015M	TPH-O 8015M	TPH-Char 8015M FC	BTEX, OXYG, EDB, EDC 8260B	FULL VOCs w/Oxygenates 8260B	Lead Total / Dissolved 6010/6020/7421	STIC	TCLP	Metals: CAM 17 PP13	Ethanol/Methanol 8015B	Ethanol 8260B	TPHG/BTEX/OXYG/EOH 8260B	TPHG/BTEX/MTBE (carb 410-T03)	Lab Filter	TAT: RUSH 24-HR 48 HR 72HR STD	PID Reading, Odor, Staining, Other TAT, etc.
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	35 ppm
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5 ppm
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5 ppm
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4.5 ppm

RECEIVED BY: Watson (signature)

RECEIVED BY: Watson (signature)

Method of shipment, additional comments: 24-hr Turn-around

☒ Fax preliminary data ASAP

☐ USTCF

☒ EDF-COELT

☐ NONE

Required MRLs to:

VCLUFT PSD-LUFT S.B. CO

Los Angeles RWOCB

Lahontan RWOCB

San Bernardino County FD

KCEHD Kern County

OCHCA Orange County

SAMPLE RECEIPT FORM

Service Request No: L040 2469 Client: PW LNN

Sample(s) delivered by: Client _____ CAS Emp ☒ After Hours _____ DHL _____
Golden State Overnight _____ Fed X _____ UPS _____ Other Courier _____

Chain of Custody filled out accurately? Yes ☒ No _____ (See Comments)

Appropriate sample volume and containers? Yes ☒ No _____ (See Comments)

Sufficient labeling on container(s)? Yes ☒ No _____ (See Comments)

Container(s) supplied by CAS? Yes ☒ No _____ (See Comments)

Custody seal(s) intact? N/A ☒ Yes _____ No _____ (See Comments)

Trip Blank(s) received Yes _____ No ☒

If Trip Blank was supplied by CAS, record serial # _____ -TB-

Temperature of sample(s)/cooler 2 °C Temp Blank? Y or N (Circle One) N

Voa's Marked Preserved? Yes _____ No _____ Filled Properly? Yes _____ No _____ (See Comments)

Preserved Bottles Requiring pH check(s)? Yes _____ Appropriate Preservation? Yes _____ No _____

RUSH Turn around time? Yes ☒ Notified IL DNE Date & Time 12/6/04

Short Hold-Time Analysis (check all that apply)

ASAP Res Cl _____ D.O _____ Flash _____ Diss S2- _____ Ferrous Fe _____
24HR pH _____ Odor _____ Cr+6 _____
48HR BOD _____ Color _____ MBAS _____ Nitrate _____
Nitrite _____ O-PO4 _____ Sett Sol _____ Turbidity _____
72HR Vapors _____

Notified _____ Date & Time _____

Container(s) received and their preservative(s):

-1 → 8 = 3 enclosures

Comments Rush

Initials, Date, Time LK 12/6/04 174 1418 r:\sr_forms\cooler.doc Rev. 2/25/02